

show files  
File 347:JAPIO Oct 1976-2003/Feb(Updated 030603)  
      (c) 2003 JPO & JAPIO  
File 350:Derwent WPIX 1963-2003/UD,UM &UP=200336  
      (c) 2003 Thomson Derwent  
File 371:French Patents 1961-2002/BOPI 200209  
      (c) 2002 INPI. All rts. reserv.  
File 344:Chinese Patents Abs Aug 1985-2003/Mar  
      (c) 2003 European Patent Office  
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Set	Items	Description
S1	231516	(MOBILE OR RADIO OR PORTABLE OR CELLULAR OR REMOTE OR WIRE- LESS) (3N) (UNIT? OR DEVICE? ? OR APPARATUS OR TELEPHONE? ? OR - PAGER? ? OR TERMINAL?) OR (WIRELESS OR CELL? OR MOBILE) () PHON- E? OR CELLPHONE?
S2	41030	PDA OR PERSONAL()DIGITAL()ASSISTANT? OR (POCKET OR PORTABLE OR PALM()TOP OR PALMTOP OR HAND()HELD OR HANDHELD) ()COMPUTER? OR PALM? OR HANSPRING OR BLACKBERRY
S3	10335	VOICE() (PRINT? OR PATTERN? ? OR SIGNATURE? OR CHARACTERIS- TIC? OR RECOGNITION) OR DIGITAL()VOICE OR BIOMETRIC? OR BIO- ()METRIC?
S4	280405	BARCODE? OR BAR()CODE? OR IPC OR SKU OR CODE
S5	315988	SCREEN OR SCREENS
S6	836922	DISPLAY
S7	400937	SCAN? OR READER?
S8	842	(S1 OR S2) (S)S4(S)S7
S9	24	S8(10N)S5
S10	0	S10 NOT PD=20000713:20030612
S11	124	S4(5N)S5(5N)S7
S12	0	S12 AND (S1 OR S2)
S13	0	S13 AND S3
S14	0	S14 NOT PD=20020713:PD=030612
S15	0	S9 AND S3

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9/7/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
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07339466 \*\*Image available\*\*  
CODE AND PORTABLE TERMINAL

PUB. NO.: 2002-207957 [JP 2002207957 A]  
PUBLISHED: July 26, 2002 (20020726)  
INVENTOR(s): YOSHIHARA SATOSHI  
DAN MASAHIRO  
APPLICANT(s): MATSUSHITA ELECTRIC IND CO LTD  
APPL. NO.: 2001-004655 [JP 20011004655]  
FILED: January 12, 2001 (20010112)

#### ABSTRACT

PROBLEM TO BE SOLVED: To solve the problem that a code reader is possibly unable to read a code since the color of a case surrounding the display \*screen\* of a \*portable\* \*terminal\* \*device\* is higher in luminance than the color of the display \*screen\* or since the luminance outside the margin part of the displayed code is larger than the luminance of the margin part by the effect of the backlight source of the display \*screen\*.

SOLUTION: This \*code\* is provided with optical information composed of a part having =2 different kinds of luminance and a mark part which is provided outside the optical information and has a color lower in luminance than a margin part of nearly the same color with the high-luminance part of the optical information outside the margin part; even if the luminance of the circumference of the code is high, the margin part and the low-luminance color part of the optical information adjacent to the margin part can easily be discriminated when read by a code reader.

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9/7/2 (Item 2 from file: 347)  
DIALOG(R)File 347:JAPIO  
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07249001 \*\*Image available\*\*  
INFORMATION PROCESSING SYSTEM USING BAR-CODE SCREEN

PUB. NO.: 2002-117458 [JP 2002117458 A]  
PUBLISHED: April 19, 2002 (20020419)  
INVENTOR(s): FUJIWARA KENJI  
APPLICANT(s): I CONVENIENCE KK  
APPL. NO.: 2000-305449 [JP 2000305449]  
FILED: October 04, 2000 (20001004)

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide an information processing system allowing the use of electronically acquired information in the use of a coupon, the payment of a price, the receipt of a commodity or the like without converting it to a hardware-like medium.

SOLUTION: This system comprises a management server connected to a user's portable terminal and a store terminal set in each store through a communication network and equipped with an information database with prescribed electronic information stored therein. When required electronic information is requested from the portable terminal through the

communication network, the management server extracts the corresponding electronic information from the information database, converts it into a bar-code image data, and transmits the bar-code image data to the \*portable\* terminal together with an applet for adjusting the display screen of the portable terminal so as to clearly display a bar-\*code\* on the display \*screen\* of the \*portable\* \*terminal\* through the communication network to display it on the display \*screen\*. The store terminal reads the \*bar\*-code\* information displayed on the display \*screen\* of the \*portable\* \*terminal\* through a \*bar\*-code\* \*reader\* and performs a service processing corresponding to the bar-code information.

, the COPYRIGHT: (C) 2002, JPO

the merchandise discount

164. The above rights

9/7/3 (Item 3 from file: 347)

DIALOG(R) File 347:JAPIO

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07097812 \*\*Image available\*\*

SYSTEM, METHOD AND SERVER DEVICE FOR ELECTRONIC COMMERCIAL TRANSACTION UTILIZING COMMUNICATION TERMINAL OF MOVE OBJECT

PUB. NO.: 2001-325468 [JP 2001325468 A]

PUBLISHED: November 22, 2001 (20011122)

INVENTOR(s): SHAMOTO SENICHI

APPLICANT(s): SHAMOTO SANGYO KK

APPL. NO.: 2000-236025 [JP 2000236025]

FILED: August 03, 2000 (20000803)

PRIORITY: 2000-062211 [JP 200062211], JP (Japan), March 07, 2000 (20000307)

#### ABSTRACT

PROBLEM TO BE SOLVED: To enable an electronic commercial transaction utilizing a communication terminal of move object adaptable to various communication systems or browsers.

SOLUTION: A client 20 accesses a selling site 11 by means of a portable telephone 21, reads information such as price or date of delivery of an article, selects the article desired to purchase on the basis of the provided information and transmits order data to the selling site 11. When the order data are received, the selling site 11 transmits information on the article determined to purchase by the client onto the liquid crystal display \*screen\* of the \*portable\* \*telephone\* 21 as image data based on a bar code. The client 20 visits a convenience store and reads this bar code by means of a bar code reader 32 connected to a POS terminal 31. By determining a method for settlement and article receiving in this case, the transaction is established.

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9/7/4 (Item 4 from file: 347)

DIALOG(R) File 347:JAPIO

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06699493 \*\*Image available\*\*

PORTABLE INFORMATION COMMUNICATION TERMINAL AND ENTERTAINMENT SYSTEM

PUB. NO.: 2000-285324 [JP 2000285324 A]

PUBLISHED: October 13, 2000 (20001013)

INVENTOR(s): CHATANI KIMIYUKI

APPLICANT(s): SONY COMPUTER ENTERTAINMENT INC  
APPL. NO.: 11-093992 [JP 9993992]  
FILED: March 31, 1999 (19990331)

ABSTRACT

PROBLEM TO BE SOLVED: To provide a portable information communication terminal which unites with the existing industrial system easily.

SOLUTION: The center computer 16 of the headquarters 15 of a convenience store 13 broadcasts merchandise discount information with a broadcasting system 24. The merchandise discount information is received by a portable information communication terminal 28. In such a case, the images, discount prices, etc., of merchandise corresponding to the merchandise discount information are shown on the screen 201 of a monitor 164. When a user tries to purchase displayed merchandise, the user selects desired merchandise on the \*screen\* 201 with an operating device 108. A \*bar\* \*code\* corresponding to the merchandise is shown on the \*screen\* 57 of the terminal 28 by the selection. The user carries the terminal 28 where the \*bar\* \*code\* is displayed on the \*screen\* 57 to the store 13. A \*bar\*, \*code\* \*reader\* 210 reads a discount \*code\* on the \*screen\* 57 and accordingly, the user can purchase the merchandise at the discount price in the store 13.

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9/7/5 (Item 5 from file: 347)

DIALOG(R)File 347:JAPIO  
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06261183 \*\*Image available\*\*  
MAP PREPARATION SYSTEM

PUB. NO.: 11-202763 [JP 11202763 A]  
PUBLISHED: July 30, 1999 (19990730)  
INVENTOR(s): YOSHINO KATSUTAKA  
APPLICANT(s): SONY CORP  
APPL. NO.: 10-006782 [JP 986782]  
FILED: January 16, 1998 (19980116)

ABSTRACT

PROBLEM TO BE SOLVED: To make easily preparable a map with excellent handleability corresponding to the request of a user by not only displaying the position of a desired spot on the map but also displaying the additional information on the spot.

SOLUTION: This system is constituted of a bar code 2 printed on the paper surface of a magazine or the like, a bar code reader 3 for reading the bar code 2, a terminal equipment 4 for displaying desired map information on a \*screen\* and a control, terminal equipment 5 for performing \*radio\* communication with the \*terminal\*. equipment 4. The bar code 2 is composed of the position information of the desired spot and desired additional information relating to the spot. The bar code reader 3 is composed of a charge transfer element or a laser or the like for instance, generates infrared ray signals IRL by reading the bar code 2 and outputs them to the terminal equipment 4. The terminal equipment 4 displays the map based on the desired map information and displays the position information and the desired additional information on the map based on infrared ray signals IR1 outputted from the bar code reader 3.

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9/7/6 (Item 6 from file: 347)  
DIALOG(R) File 347:JAPIO  
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04933290 \*\*Image available\*\*  
FLOW RATE DETECTOR, TERMINAL EQUIPMENT AND METER INSPECTION SYSTEM USING  
THESE DETECTOR AND EQUIPMENT

PUB. NO.: 07-225890 [JP 7225890 A]  
PUBLISHED: August 22, 1995 (19950822)  
INVENTOR(s): KAWAOMO IKUO  
APPLICANT(s): CANON INC [000100] (A Japanese Company or Corporation), JP  
CC: JPO (Japan)  
APPL. NO.: 06-016376 [JP 9416376]  
FILED: February 10, 1994 (19940210)

#### ABSTRACT

PURPOSE: To prevent the reading and input mistakes in a meter inspection mode and to improve the efficiency of the meter inspection jobs by converting the detected flow rates of the city water, gas, electricity, etc., into the bar code data and displaying these flow rates in bar codes.

CONSTITUTION: A flow rate detector 2a detects the used amounts of city water, gas, electricity, etc., and an A/D converter 2b converts the flow rates detected by the detector 2a into the digital value. These digital flow rates are numerically shown on a display counter 2 by a CPU 2c. The CPU 2c also reads the bar code patterns out of a memory 9 in response to those flow rates changing momentarily and displays these patterns on a liquid crystal display 3 at each prescribed time interval counted by a counter 10. Thus a meter inspector turns a bar code reading scanner of his portable terminal equipment toward the display 3 to read the displayed \*bar\* \*code\* pattern. This read pattern is shown on the display \*screen\* of the \*portable\* \*terminal\* equipment and also stored in an internal memory. Then this bar code pattern can be inputted to a host computer.

9/7/7 (Item 7 from file: 347)

DIALOG(R) File 347:JAPIO  
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04917641 \*\*Image available\*\*  
REMOTE MONITOR DEVICE FOR OPERATION OF EQUIPMENT

PUB. NO.: 07-210241 [JP 7210241 A]  
PUBLISHED: August 11, 1995 (19950811)  
INVENTOR(s): YAMADA TAKESHI  
UMENO MASATO  
KAGAWA NORIO  
TOMITA RITSUYA  
YORITA MASAHIKO  
YOSHITAKE SHIGERU  
IWAMOTO MITSURU  
TANEO KIYOKAZU  
AZUMA YUICHI  
FUKUI HAJIME  
APPLICANT(s): YAMADA TAKESHI [000000] (An Individual), JP (Japan)  
UMENO MASATO [000000] (An Individual), JP (Japan)  
KAGAWA NORIO [000000] (An Individual), JP (Japan)  
TOMITA RITSUYA [000000] (An Individual), JP (Japan)  
YORITA MASAHIKO [000000] (An Individual), JP (Japan)

YOSHITAKE SHIGERU [000000] (An Individual), JP (Japan)  
IWAMOTO MITSURU [000000] (An Individual), JP (Japan)  
TANEO KIYOKAZU [000000] (An Individual), JP (Japan)  
AZUMA YUICHI [000000] (An Individual), JP (Japan)  
FUKUI HAJIME [000000] (An Individual), JP (Japan)

APPL. NO.: 06-005098 [JP 945098]  
FILED: January 21, 1994 (19940121)

ABSTRACT

PURPOSE: To prevent the occurrence of misoperations by checking systematically the human errors or the operating procedure errors of equipments.

date Week.

CONSTITUTION: A CPU 1 prepared in a central control room CC possesses a function to display an operation system diagram M of equipments (valves) on a CRT 4, a function to set an operation pattern and a function to monitor each operating state. Meanwhile a function that receives the operation pattern set by the CPU 1 and transmitted by radio and shows it on a \*screen\* is provided on a portable terminal equipment 6 containing a \*code\* reader 8 which reads the codes attached to the equipments. Furthermore the equipment 6 has a function to check whether the operating subject equipment is correct or not based on the read code, and a function to send this checking result to the CPU 1 by radio. Thus the operations of equipments are checked by the transfer of information between the CPU 1 and the equipment 6.

9/7/8 (Item 8 from file: 347)

DIALOG(R) File 347:JAPIO  
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03557945 \*\*Image available\*\*  
BAR CODE TELEPHONE NUMBER INPUT METHOD

PUB. NO.: 03-220845 [JP 3220845 A]  
PUBLISHED: September 30, 1991 (19910930)  
INVENTOR(s): MURATA HIROSHI  
APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 02-014839 [JP 9014839]  
FILED: January 26, 1990 (19900126)

ABSTRACT

PURPOSE: To easily attain telephone connection to an opposite party by reading a telephone number subject to bar code processing with a bar code reader, converting the data into a dial data to call the opposite party and displaying the fact of connection in the presence of a reply.

CONSTITUTION: In the case of calling an opposite party, a bar code reader connecting to a portable device reads a bar code of a telephone number written in advance and the read data is displayed on a liquid crystal \*screen\* of the \*portable\* \*terminal\* \*device\*. In the case of 'ON' entered by the operator, a designation dial number is dialed and a dial pulse is sent to call the opposite party. Then a busy display is implemented on the liquid crystal screen during dialing. The connection of the opposite party is discriminated based on the dialing display. The connection display on the liquid crystal screen is implemented to await a succeeding processing program.

9/7/9 (Item 1 from file: 350)

DIALOG(R) File 350:Derwent WPIX  
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015180979 \*\*Image available\*\*  
WPI Acc No: 2003-241510/200324

Feedback controlled selective signaling system for mobile telephones  
sends bar-code data representing e.g. discount coupon to user's telephone  
for redemption at shop point-of-sale terminal

Patent Assignee: LEWIS M (LEWI-I)

Inventor: LEWIS M

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2379052	A	20030226	GB 200211402	A	20020517	200324 B

Priority Applications (No Type Date): GB 200211402 A 20020517

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2379052	A	25		G06F-017/60	

Abstract (Basic): GB 2379052 A

NOVELTY - A file containing a bar-code representation of an electronic discount coupon is sent to a user's \*mobile\* \*telephone\*, where the \*bar\*-\*codes\* are displayed on-\*screen\* (s202) for \*scanning\* by a point-of-sale (POS) terminal (s203). The terminal verifies (s204) the coupon and notifies (s206) the back-office server which processes the sale and sends a message to the telephone to delete the coupon (s211).

DETAILED DESCRIPTION - The user may request the coupon in response to a wireless application protocol (WAP) alert message sent to their global system for mobile communications (GSM) network telephone by a WAP push process, and the coupon may be delivered by means of hyper-text transfer protocol (http) or by short message service (SMS).

An INDEPENDENT CLAIM is also included for an apparatus for feedback-controlled selective signaling.

USE - For the provision and redemption of electronic discount coupons sent to mobile telephones of shopping customers.

ADVANTAGE - The transmission of the coupons is recorded in a data base to control the number of times the coupon is sent, and the coupon may be used a number of pre-determined times before deletion. The coupons can be sent according to past purchasing information.

DESCRIPTION OF DRAWING(S) - The drawing is a flowchart illustrating the redemption of a discount coupon.

- Display bar-codes (s202)
- Scan bar-codes (s203)
- Verify coupon (s204)
- Notify back office (s206)
- Delete coupon (s211)

pp; 25 DwgNo 7/10

Derwent Class: T01; T05; W01

International Patent Class (Main): G06F-017/60

9/7/10 (Item 2 from file: 350)

DIALOG(R) File 350:Derwent WPIX  
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015107365 \*\*Image available\*\*  
WPI Acc No: 2003-167884/200316

Two-pole electrical contact apparatus with faces brought into contact in different relative positions, for transferring power or data between two

objects, e.g. for bar-code reader, mobile phone charger or electric vehicle power supply

Patent Assignee: UNIV BATH (UYBA-N)

Inventor: BOWYER A

Number of Countries: 100 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200309430	A1	20030130	WO 2002GB3277	A	20020718	200316 B

Priority Applications (No Type Date): GB 200117802 A 20010720

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200309430	A1	E	42	H01R-025/14	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW

Abstract (Basic): WO 2003009430 A1

NOVELTY - The contact apparatus comprises two bodies defining faces with connection points e.g. fluid inlets and outlets connected to a source and sink and to a positive or high pressure terminal via a one-way valve (electrical diode) (24,25) in the forward direction and to a negative or low pressure terminal via a one-way valve in the reverse direction. The faces can be brought into contact in different positions.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for a method of establishing a connection between the two bodies.

USE - For transferring power or data between two objects, e.g. for use with bar-code reader, for debit or credit card transactions and other applications in which cards need to be swiped, for recharging electrical \*devices\* such as \*mobile\* \*telephones\* and cordless drills, for touch \*screen\* applications for computers, stock control, library book issue, door locks etc. Can also be used to transfer power between a roadway and an electric vehicle, but is preferably used in a more structured environment, e.g. for a toy, automatically guided vehicles in factories, or mobile robots used for research into cooperative behavior or similar applications. Can be used for powering spotlights e.g. for galleries, exhibitions or conferences. Can be used to provide power or a network connection between a desk and a laptop computer, e.g. in public areas such as airport lounges, airplanes or trains.

ADVANTAGE - Apparatus enables two-pole electrical contact to be established between two touching bodies and the passage of fluid between them when they are not well aligned.

DESCRIPTION OF DRAWING(S) - The figure shows a pattern of diode contact pads

diodes (24,25)

pp; 42 DwgNo 2/8

Derwent Class: U24; V04; W01; W04; W06; X16; X21; X23; X25

International Patent Class (Main): H01R-025/14

9/7/11 (Item 3 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014867405 \*\*Image available\*\*

WPI Acc No: 2002-688111/200274

**Paying method using mobile communication terminal having bar code displaying function**

Patent Assignee: KIM S S (KIMS-I)

Inventor: KIM S S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2002035292	A	20020511	KR 200065528	A	20001106	200274 B

Priority Applications (No Type Date): KR 200065528 A 20001106

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
KR 2002035292	A	1	G06F-019/00	

Abstract (Basic): KR 2002035292 A

NOVELTY - A paying method using a mobile communication terminal is provided to prevent a crime with respect to a credit transaction from happening without carrying an additional card by displaying a bar code on a mobile communication terminal, thereby performing a payment of a credit transaction.

DETAILED DESCRIPTION - A user registers a using of electronic money for performing a credit transaction using a \*bar\* \*code\* on a menu \*screen\* of a \*mobile\* communication \*terminal\*. At this time, the user registers one's password in the mobile communication terminal(S101, S102). If the user buys a commodity from a seller and selects a bar code display function in the mobile communication terminal(S103), the mobile communication terminal requests to the user for inputting a password(S104). If the user inputs one's password(S105), the mobile communication terminal decides whether the inputted password is identified with a pre-registered password(S106). If the inputted password is identified with a pre-registered password, the mobile communication terminal displays a pre-registered bar code on an LCD(S108). If the user suggests the mobile communication terminal including a displayed bar code to the seller, the seller reads the corresponding bar code using a bar code reader(S110). If the seller inputs using amount information of a credit transaction through an input unit mounted in the bar code reader, the bar code reader transmits the bar code information obtained from the mobile communication terminal and the using amount information to a communication businessman, thus a generation of a credit transaction is notified(S112). The communication businessman recognizes a user's identity using the bar code information transmitted from the bar code reader(S113) and demands a payment of the using amount when a mobile telephone charge is demanded(S114).

pp; 1 DwgNo 1/10

Derwent Class: T01

International Patent Class (Main): G06F-019/00

9/7/12 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014569008 \*\*Image available\*\*

WPI Acc No: 2002-389711/200242

Communication system has POS terminal provided with scanner to read information code image displayed at mobile telephone

Patent Assignee: NIPPONDENSO CO LTD (NPDE )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
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JP 2002109420 A 20020412 JP 2000296309 A 20000928 200242 B

Priority Applications (No Type Date): JP 2000296309 A 20000928

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2002109420	A		9	G06F-017/60	

Abstract (Basic): JP 2002109420 A

NOVELTY - A POS terminal (15) is provided with a scanner (19) to read an information code image that is displayed at the \*screen\* (13) of a \*mobile\* \*telephone\* (8) to indicate an information \*code\*.

USE - Communication system.

ADVANTAGE - Enables transmitting required data to POS terminal easily without using exclusive communication circuit.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of communication system. (Drawing includes non-English language text).

- Mobile telephone (8)
- Screen of mobile telephone (13)
- POS terminal (15)
- Scanner (19)

pp; 9 DwgNo 1/12

Derwent Class: T01; T05

International Patent Class (Main): G06F-017/60

International Patent Class (Additional): G07D-009/00; G07G-001/12

9/7/13 (Item 5 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014428893 \*\*Image available\*\*

WPI Acc No: 2002-249596/200230

Payments processing system using mobile telephone in bank, executes payment process when customer identification code from web server and identification code input corresponding to payment process based on transactions, match

Patent Assignee: TASNET KK (TASN-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002056197	A	20020220	JP 2000284349	A	20000814	200230 B

Priority Applications (No Type Date): JP 2000284349 A 20000814

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2002056197	A		11	G06F-017/60	

Abstract (Basic): JP 2002056197 A

NOVELTY - A mobile telephone (7) acquires customer identification code from a web server (2) through internet and displays the \*code\* on a \*screen\* (6). A \*reader\* (8) reads the displayed \*code\*. An input unit (9) inputs the identification code and content of payment process based on transactions. A server (15) executes the payment process, when the read code and input code are matched.

USE - For executing payments process through mobile telephone, in bank.

ADVANTAGE - By communicating through mobile telephone for processing payments without using cards, security of money and card can be maintained.

DESCRIPTION OF DRAWING(S) - The figure shows the components of payments processing system. (Drawing includes non-English language

9/7/14 (Item 6 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014401084 \*\*Image available\*\*

WPI Acc No: 2002-221787/200228

**Electronic payment method, involves turning over goods or services to customer based on credit payment information accumulated in a portable terminal**

Patent Assignee: HITACHI LTD (HITA )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002024730	A	20020125	JP 2000213379	A	20000710	200228 B

Priority Applications (No Type Date): JP 2000213379 A 20000710

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2002024730	A	19		G06F-017/60	

Abstract (Basic): JP 2002024730 A

NOVELTY - Goods or services are turned over to the customer based on the credit payment information accumulated in a \*portable\* \*terminal\*. The \*screen\* of that \*portable\* \*terminal\* displays a \*bar\* \*code\* read via a bar code reader.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a mobile telephone system.

USE - Electronic payment method.

ADVANTAGE - Provides an electronic delivery of payment from the financial institution to the shop from which the goods or service were purchased.

DESCRIPTION OF DRAWING(S) - The figure shows the component block diagram of the bar code data providing network utilized for electronic payment. (Drawing includes non-English language text)

pp; 19 DwgNo 1/27

Derwent Class: T01

International Patent Class (Main): G06F-017/60

International Patent Class (Additional): G06K-007/00; G07G-001/12

9/7/15 (Item 7 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014334654 \*\*Image available\*\*

WPI Acc No: 2002-155357/200221

**Communication system for barcode reader of business cards within a mobile telephone uses code included to retrieve information for display**

Patent Assignee: CARAYIANNIS P (CARA-I); CURRIER T A (CURR-I)

Inventor: CARAYIANNIS P; CURRIER T A

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CA 2327376	A1	20010613	CA 2327376	A	20001213	200221 B
US 20010044324	A1	20011122	US 99170525	P	19991213	200221
			US 2000732305	A	20001208	

Priority Applications (No Type Date): US 99170525 P 19991213; US 2000732305 A 20001208

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
CA 2327376 A1 E 5 H04Q-007/32  
US 20010044324 A1 H04M-001/00 Provisional application US 99170525

Abstract (Basic): CA 2327376 A1

NOVELTY - A barcode reader within a mobile telephone operates to receive an encoded barcode on a business card (20) representative of information about the respective owner. A processor in the housing connected to receive from the reader, actuates the reader and decodes at least a portion of the received \*code\* presenting at least a portion of this via a display \*screen\*

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for a computer based method of reading a business card and displaying received information

USE - For providing a barcode reader for business card's within a mobile telephone and display received information and may also automatically dial a telephone number embedded within code

ADVANTAGE - Information from business cards can be transferred onto mobile phones automatically

DESCRIPTION OF DRAWING(S) - The drawing shows the front side of a business card

business card (20)

pp; 5 DwgNo 1/3

Derwent Class: T04; W01

International Patent Class (Main): H04M-001/00; H04Q-007/32

International Patent Class (Additional): G06K-019/06

9/7/16 (Item 8 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014251704 \*\*Image available\*\*

WPI Acc No: 2002-072404/200210

Electronic-commerce system accesses goods purchase data from selling site, to display corresponding bar-code on mobile telephone screen, based on which goods transaction methods are determined

Patent Assignee: SHAHON SANGYO KK (SHAH-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2001325468	A	20011122	JP 2000236025	A	20000803	200210 B

Priority Applications (No Type Date): JP 200062211 A 20000307

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

JP 2001325468 A 12 G06F-017/60

Abstract (Basic): JP 2001325468 A

NOVELTY - The customer (20) accesses the selling site (11) through a mobile telephone (21) to acquire goods purchase order data which are displayed as \*bar\*-\*code\* in the LCD \*screen\* of the \*mobile\* \*telephone\*. A \*bar\*-\*code\* \*reader\* (32) connected to POS terminal (31), reads the displayed bar-code, based on which goods delivery and settlement methods are determined for transaction.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (a) Electronic-commerce method;
- (b) Server for controlling e-commerce

USE - Electronic-commerce system.

ADVANTAGE - The goods transaction and settlement method are

determined efficiently based on the bar-code displayed in the screen of the mobile telephone.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of electronic-commerce system. (Drawing includes non-English language text).

Selling site (11)  
Customer (20)  
Mobile telephone (21)  
POS terminal (31)  
Bar-code reader (32)

pp; 12 DwgNo 1/4

Derwent Class: T01; T05

International Patent Class (Main): G06F-017/60

International Patent Class (Additional): G07G-001/12; G07G-001/14

9/7/17 (Item 9 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014142442 \*\*Image available\*\*

WPI Acc No: 2001-626653/200173

**Computerized point-of-sale system for use in restaurant, processes orders input by customers through various devices and accordingly performs accounts settlement**

Patent Assignee: TONG N T (TONG-I)

Inventor: TONG N T

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CA 2293975	A1	20010628	CA 2293975	A	19991228	200173 B

Priority Applications (No Type Date): CA 2293975 A 19991228

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
CA 2293975	A1	E	7	G06F-017/60	

Abstract (Basic): CA 2293975 A1

NOVELTY - Menu items are ordered through various input units such as menu card \*scanner\*, touch \*screen\*, \*cell\* \*phone\*, internet terminal and \*barcode\* \*scanner\*. A point-of-sale computer terminal processes the input orders and sends a copy of order to kitchen. Menu order processing program also displays the ordered items, total cost with appropriate taxes due, and balance change due to customer after rendering bill amount.

USE - For use in restaurant, fastfood outlets, bars, entertainment center, night clubs, etc.

ADVANTAGE - Various input facilities enable prior ordering of menu items even before coming to restaurant, thus eliminates waiting time of customers. Waiting period for getting the bill and change amount after bill payment is considerably reduced, as pre-payment for bill is enabled. Due to various input facilities, the process of order taken by waiters is eliminated and thus their service can be better utilized for serving. Chances of incorrect ordering and incorrect food item supply is avoided, since order taking is not done through waiters.

Point-of-sale computer system provides accurate statistics of popular menu items, efficient waiter, turnover, etc. Overall turnover and profit are increased, as the system enables efficient service to all customers during peak periods.

DESCRIPTION OF DRAWING(S) - The figure shows the schematic diagram of computerized point-of-sale terminal with multi-order taking

facilities in restaurant.

pp; 7 DwgNo 1/2

Derwent Class: T01; T05; W01; W02; W05

International Patent Class (Main): G06F-017/60

International Patent Class (Additional): G07F-017/40; G07G-001/14;  
G08C-019/00

9/7/18 (Item 10 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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013999769 \*\*Image available\*\*

WPI Acc No: 2001-483983/200153

Data transmission between apparatuses such as mobile telephone and service terminal - by displaying e.g. \*bar\*-\*code\* on \*screen\* and \*scanning\* to read \*code\* into second apparatus

Patent Assignee: SIEMENS AG (SIEI )

Inventor: PRANGE S

Number of Countries: 021 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 10005486	A1	20010809	DE 1005486	A	20000208	200153 B
WO 200159688	A1	20010816	WO 2000DE3327	A	20000925	200153

Priority Applications (No Type Date): DE 1005486 A 20000208

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

DE 10005486 A1 5 G06F-003/00

WO 200159688 A1 G G06K-007/10

Designated States (National): CN HU US

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU  
MC NL PT SE

Abstract (Basic): DE 10005486 A

A first apparatus (1) such as a mobile telephone produces a machine-readable code from the data to be transmitted. The code is then read by a reading device of the second apparatus. The first apparatus includes a display (2).

The code includes a code pattern produced on the display. The reading device includes a scanner positioned in front of the first apparatus to read the code. The code may be an alphanumeric code, a bar-code, an image or sequence of brightness states.

USE - For local transmission of data between mobile telephone and another terminal such as service terminal for payments etc.

ADVANTAGE - Simple technology, which is compatible with large range of other equipment.

Dwg.1/2

Derwent Class: T01; T04; T05; W01

International Patent Class (Main): G06F-003/00; G06K-007/10

International Patent Class (Additional): G06K-017/00; G07F-007/10;  
H04M-001/02

9/7/19 (Item 11 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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012038974 \*\*Image available\*\*

WPI Acc No: 1998-455884/199839

Interactive consumer product promotion method - has computer controlled

interactive games and personalised rebate forms with customer discount payment

Patent Assignee: SMALL M E (SMAL-I)

Inventor: SMALL M E

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5791991	A	19980811	US 95559798	A	19951115	199839 B
CA 2224032	A1	19990608	CA 2224032	A	19971208	199948 N

Priority Applications (No Type Date): US 95559798 A 19951115; CA 2224032 A 19971208

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5791991	A	16	A63F-003/06	
CA 2224032	A1	E	G06F-017/60	

Abstract (Basic): US 5791991 A

The promotions method comprises a centralized data base [1] including a CPU [2] which generates an interactive screen display [3]. Memories store consumer product discount and refund information [5] and the game matrices for bingo and keno games [6]. The CPU is connected by modem to an internet site [11] for remote access by home users.

The keyboard can use a scanner to input completed rebate forms and for inputting evidence of purchase. Interaction from the games and discount or refund information is shown at the \*screen\* of the \*terminal\* or \*remote\* computer. Electronic transfer or in built printers credit funds to the consumer which form personalised rebates with consumer ID and security bar codes.

USE- Interactive electronic terminals in stores and personal computers from home.

ADVANTAGES- Match game offers cash incentive providing target audience for promotions and advertising. Matches can yield instant discounts or vouchers in the form of personalised rebates or instant fund transfer to the users account.

Dwg.1/8

Derwent Class: P36; T01; T05; W02

International Patent Class (Main): A63F-003/06; G06F-017/60

International Patent Class (Additional): G06F-017/40; G06F-019/00

9/7/20 (Item 12 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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011880227 \*\*Image available\*\*

WPI Acc No: 1998-297137/199826

Cradle assembly for portable electronic device e.g. notebook, laptop and pen computers - has first and second coupling members between which portable electronic device is releasably retained, under engagement state

Patent Assignee: ITRONIX CORP (ITRO-N)

Inventor: CLARK J; LAMARCHE J; TUTTLE R J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5751546	A	19980512	US 96670723	A	19960621	199826 B

Priority Applications (No Type Date): US 96670723 A 19960621

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5751546	A	18	G06F-001/16	

Abstract (Basic): US 5751546 A

The assembly includes a first coupling member supported by a base. The coupling member in turn supports a first end of a portable electronic device on the base, removably. A second coupling member is arranged on the base at suitable distance from the first member. The second member is moved towards or away from the first member accordingly. The second member pivotably supports the second end of the portable electronic device on the base.

A biasing spring energising the second member in loading position, towards the first member. During loading, the inclined contact surface at the loading location engages with the electronic device. The second member is moved away from the first member to receive the second end of the electronic device. The electronic device is releasably retained between the first and second coupling members, under engagement condition.

USE - For dataform readers, bar code readers, \*portable\* data \*terminals\*, work slate and touch \*screen\* displays.

ADVANTAGE - Minimises burden of operator. Facilitates coupling of expansion port and power supply to device mounted on cradle. Simplifies loading and unloading of device from cradle, especially under vehicle mounted conditions. Improves customer service efficiency.

Dwg.9/11

Derwent Class: T01; T04; V04

International Patent Class (Main): G06F-001/16

International Patent Class (Additional): H05K-001/16

9/7/21 (Item 13 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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011733528 \*\*Image available\*\*

WPI Acc No: 1998-150438/199814

Portable terminal equipment with barcode reader - displays normality and abnormality of barcode reading by adjusting reading part of barcode reader to brightness level

Patent Assignee: HITACHI LTD (HITA )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10021317	A	19980123	JP 96172033	A	19960702	199814 B

Priority Applications (No Type Date): JP 96172033 A 19960702

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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JP 10021317	A	4		G06K-007/00	
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Abstract (Basic): JP 10021317 A

The portable terminal equipment has a microcomputer control part (1), a memory part (2), a \*screen\* display part (5), a key input part (3), a \*barcode\* \*reader\* (7) and a communication interface part (4).

While reading the barcode, the normality and abnormality of reading are displayed by making the reading part of barcode reader to brightness level.

ADVANTAGE - Enables easy judging of reading result.

Dwg.1/2

Derwent Class: T04

International Patent Class (Main): G06K-007/00

9/7/22 (Item 14 from file: 350)

DIALOG(R) File 350:Derwent WPIX  
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011668815 \*\*Image available\*\*

WPI Acc No: 1998-085724/199808

Cradle assembly e.g. for laptop - has cooler which is positioned in relation with portable electronic equipment which is received on mounting surface

Patent Assignee: ITRONIX CORP (ITRO-N)

Inventor: ERLER W F; GRZELAK K D; O'HAGAN T P

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5704212	A	19980106	US 96713952	A	19960913	199808 B

Priority Applications (No Type Date): US 96713952 A 19960913

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5704212	A	18	F25B-021/02	

Abstract (Basic): US 5704212 A

The assembly includes a base with a mounting surface which is configured to removably receive a portable electronic device. A cooler is supported by the base and positioned in thermally conductive relation with a portable electronic equipment that is received on the mounting surface. The cooler is operable to dissipate heat from the portable electronic equipment.

Preferably, the cooler comprises a thermoelectric cooler. A fan is provided in the base and is configured to cool a warm side of the thermoelectric cooler. The thermoelectric cooler is positioned in proximate thermally conductive relation with a heat sink pipe of the portable electronic equipment is received on the cradle.

USE - E.g. for notebook, pen computers, dataform reader, barcode readers. \*portable\* data \*terminals\*, work slates, touch \*screen\* displays.

ADVANTAGE - Facilitates use with service personnel. Heats portable electronic equipment when operating in harsh and extremely cold thermal environment.

Dwg. 6/12

Derwent Class: Q75; T01; V04

International Patent Class (Main): F25B-021/02

International Patent Class (Additional): G06F-001/16; H05K-007/20

9/7/23 (Item 15 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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011354223 \*\*Image available\*\*

WPI Acc No: 1997-332130/199730

Portable RF ID tag and bar code reader for use in supermarkets - includes microcomputer which is mounted in hand held housing and is programmed to control barcode scan engine, display and touchscreen input unit

Patent Assignee: AMES R M (AMES-I); FISH R C (FISH-I); RUPPERT J P (RUPP-I); YAP T A (YAPT-I)

Inventor: AMES R M; FISH R C; RUPPERT J P; YAP T A

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5640002	A	19970617	US 95515257	A	19950815	199730 B

Priority Applications (No Type Date): US 95515257 A 19950815

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5640002	A	83	G06K-007/10	

Abstract (Basic): US 5640002 A

The portable information gathering apparatus includes a barcode scan engine which is mounted within a housing which is small enough to be carried by hand. The barcode scan engine is capable of scanning barcodes and decoding and outputting alphanumeric characters encoded in the \*barcodes\*. A touch \*screen\* input unit is mounted in the housing and is superimposed over the display for receiving user input.

A microcomputer is mounted in the housing and is coupled to and programmed to control the barcode scan engine, the display, the touch screen input unit, and a memory. An RF ID tag reader is coupled to and controlled by the micro computer. The RF ID tag reader includes a transmitter which can send RF transmissions which both supply power and commands to a passive RF ID tag in the form of an integrated circuit which has no power supply of its own.

USE/ADVANTAGE - Can be use is supermarkets for studying price changes in goods, for budgeting accounts and compiling shopping lists. Enables shopper to take advantage of savings offered by store.

Dwg. 27/44

Derwent Class: T01; T04; T05

International Patent Class (Main): G06K-007/10

9/7/24 (Item 16 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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010772266 \*\*Image available\*\*

WPI Acc No: 1996-269219/199628

Ordering goods from remote storage location for distance shopping e.g. duty free goods to be collected at end of flight - using e.g. keyboard or bar-code scanner to select goods available through offer unit and transmitting product information to remote central station

Patent Assignee: ACCUMULATA VERW GES MBH (ACCU-N); SHOPPING BOX GMBH & CO KG (SHOP-N)

Inventor: SCHLAMP H

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 4443018	A1	19960605	DE 4443018	A	19941202	199628 B
DE 4443018	C2	20010208	DE 4443018	A	19941202	200109

Priority Applications (No Type Date): DE 4443018 A 19941202

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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DE 4443018 A1 5 G07F-007/08

DE 4443018 C2 G07F-007/08

Abstract (Basic): DE 4443018 A

The method uses a communication system (1) provided with an offer unit (11), a selection unit (12) and a transmission unit (14). A purchaser uses the selection unit (12), e.g. a keyboard, a \*bar\*-code\* \*reader\*, touch-\*screen\*, electronic pen, credit-, check- or chip card \*reader\*, to select goods available through the offer unit (11) by generation of product information corresponding to the selected goods. The selected goods information, together with purchaser identification information and destination information about the desired destination

of the purchaser are generated from the transmitter (14) and are sent via a data transmission path (2), e.g. wireless (radio, satellite) or cable (telephone or data network), to a central receiver (3).

The receiver (3) is connected via several data transmission paths (4) to a number of selection and collection stations (5) at different possible destinations. These stations (5) each include a goods store (51) and at least one output device (52) where the purchaser can collect the goods he has ordered according to his identification. The selected goods are made available from the goods store (51) of the selected location on the basis of the transmitted information.

ADVANTAGE - Allows purchaser to buy goods eg. duty free goods during eg. aeroplane, train or ship journey so they are waiting for him to collect at end of his journey, thus saving time.

Dwg.1/2

Derwent Class: T01; T04; T05; W01

International Patent Class (Main): G07F-007/08

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File 347:JAPIO Oct 1976-2003/Feb(Updated 030603)

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File 350:Derwent WPIX 1963-2003/UD,UM &UP=200336

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File 371:French Patents 1961-2002/BOPI 200209

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File 344:Chinese Patents Abs Aug 1985-2003/Mar

(c) 2003 European Patent Office

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Set	Items	Description
S1	231516	(MOBILE OR RADIO OR PORTABLE OR CELLULAR OR REMOTE OR WIRELESS) (3N) (UNIT? OR DEVICE? ? OR APPARATUS OR TELEPHONE? ? OR - PAGER? ? OR TERMINAL?) OR (WIRELESS OR CELL? OR MOBILE) () PHONE? OR CELLPHONE?
S2	41030	PDA OR PERSONAL()DIGITAL()ASSISTANT? OR (POCKET OR PORTABLE OR PALM()TOP OR PALMTOP OR HAND()HELD OR HANDHELD) ()COMPUTER? OR PALM? OR HANDSPRING OR BLACKBERRY
S3	10335	VOICE() (PRINT? OR PATTERN? ? OR SIGNATURE? OR CHARACTERISTIC? OR RECOGNITION) OR DIGITAL()VOICE OR BIOMETRIC? OR BIOMETRIC?
S4	280405	BARCODE? OR BAR()CODE? OR IPC OR SKU OR CODE
S5	315988	SCREEN OR SCREENS
S6	836922	DISPLAY
S7	400937	SCAN? OR READER?
S8	842	(S1 OR S2) (S)S4(S)S7
S9	24	S8(10N)S5
S10	0	S10 NOT PD=20000713:20030612
S11	124	S4(5N)S5(5N)S7
S12	0	S12 AND (S1 OR S2)
S13	0	S13 AND S3
S14	0	S14 NOT PD=20020713:PD=030612
S15	0	S9 AND S3

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show files
File 15:ABI/Inform(R) 1971-2003/Jun 11
    (c) 2003 ProQuest Info&Learning
File 9:Business & Industry(R) Jul/1994-2003/Jun 10
    (c) 2003 Resp. DB Svcs.
File 610:Business Wire 1999-2003/Jun 11
    (c) 2003 Business Wire.
File 810:Business Wire 1986-1999/Feb 28
    (c) 1999 Business Wire
File 624:McGraw-Hill Publications 1985-2003/Jun 11
    (c) 2003 McGraw-Hill Co. Inc
File 476:Financial Times Fulltext 1982-2003/Jun 11
    (c) 2003 Financial Times Ltd
File 621:Gale Group New Prod.Annou.(R) 1985-2003/Jun 10
    (c) 2003 The Gale Group
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Set	Items	Description
S1	345573	(MOBILE OR RADIO OR PORTABLE OR CELLULAR OR REMOTE OR WIRELESS) (3N) (UNIT? OR DEVICE? ? OR APPARATUS OR TELEPHONE? ? OR PAGER? ? OR TERMINAL?) OR (WIRELESS OR CELL? OR MOBILE) () PHONE? OR CELLPHONE?
S2	221641	PDA OR PERSONAL()DIGITAL()ASSISTANT? OR (POCKET OR PORTABLE OR PALM()TOP OR PALMTOP OR HAND()HELD OR HANDHELD) ()COMPUTER? OR PALM? OR HANSDRING OR BLACKBERRY
S3	30147	VOICE() (PRINT? OR PATTERN? ? OR SIGNATURE? OR CHARACTERISTIC? OR RECOGNITION) OR DIGITAL()VOICE OR BIOMETRIC? OR BIO-()METRIC?
S4	501084	BARCODE? OR BAR()CODE? OR IPC OR SKU OR CODE
S5	291431	SCREEN OR SCREENS
S6	274279	DISPLAY
S7	582153	SCAN? OR READER?
S8	2894	(S1 OR S2) (S)S4(S)S7
S9	88	S8(10N)S5
S10	85	RD (unique items)
S11	55	S10 NOT PD=20000713:20030612
S12	366	S4(5N)S5(5N)S7
S13	168	S12 AND (S1 OR S2)
S14	9	S13 AND S3
S15	8	S14 NOT PD=20020713:PD=030612

15/3,K/1 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01636917 02-87906  
25 Cool Things you wish you had...and will  
Willis, Clint  
Forbes ASAP Supplement PP: 48-60 Jun 1, 1998  
ISSN: 0015-6914 JRNL CODE: FBR  
WORD COUNT: 6714

...TEXT: bed to answer the phone?" groused Silicon Valley veteran Todd Mozer, who is working on \*voice\*-\*recognition\* chips to free humanity from that task (#10).

Like many revolutions, this one is powered...

... sensors that experience the world around them. Those chip-run devices will hear through better \*voice\*-\*recognition\* technology so that you will be able to tell your front door to unlock (#10...ultimately determine whether the future reminds us of Star Trek (lots of cool handheld and \*wireless\* \*devices\* like #2); the Jetsons (smart appliances like #4); Dick Tracy (wrist-borne gadgets like #23...).

... piezo layer to dampen vibrations. Result: The skis chatter less on icy slopes.

2 Powerful \*PDA\* Analysts such as Tom Starnes at Dataquest figure that many chip-run products due to...

... years will combine the functions of today's gadgets-and perform those functions more effectively. \*Personal\* \*digital\* \*assistants\* are a perfect example of that trend.

Think the hugely popular \*PalmPilot\* (more than 1 million units sold since it was introduced in 1996) is cool? In five years, you might pay around \$400 to \$500 for a vastly souped-up \*PDA\*. Everyone has his or her own idea of what this marvel will do. But results of our poll suggest that it might combine the \*PalmPilot\*'s functions (Rolodex, date book, organizer) with a wireless Internet connection for Web access and email; spreadsheets and word processing software; access to your office PC; and a pager and \*cell\* \*phone\*.

A processor comparable to a midlevel PC chip can handle all of these features. To...

...generate less heat. (The joke is that if you put a Pentium II in a \*PalmPilot\*, you'd burn your hand.) Chipmakers such as Intel maintain they have the technology to address that problem.

Perhaps a bigger hurdle: The \*devices\* require a widespread \*wireless\* network, and that's three to five years down the road. "Mobility in personal computing... already? Many functions will require an expensive array of sensors, cameras, and microphones. And while \*voice\* \*recognition\* already works with today's \$29 chips (about 200 mips), researchers are still working on...up like a Christmas tree..."

16 Wise Refrigerator Take a regular refrigerator, add a display \*screen\*, a \*bar\*-\*code\* \*scanner\*, an Internet connection, and a high-end PC chip such as a Pentium or comparable...account to give you a more accurate expiration

date. It also will communicate with your \*personal\* \*digital\* \*assistant\* to remind you to take your medicine. Food labels will talk to your refrigerator to...

...ham. And your garage door opener's label will give you a call on your \*PDA\* to let you know where it is.

Then again, a label can be too smart...run on microwatts or even picowatts of power; that compares to 0.6 watts for \*cell\* \*phones\*. Researchers also must find a way to fit radio signals onto the chip along with...

**15/3,K/2 (Item 2 from file: 15)**

DIALOG(R)File 15:ABI/Inform(R)  
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01359184 00-10171

**Capture the action**

Michel, Roberto

Manufacturing Systems v15n1 PP: 28-34 Jan 1997

ISSN: 0748-948X JRNL CODE: MFS

WORD COUNT: 2308

...TEXT: statistical process control (SPC) program is integrated with the software, and also is displayed on-\*screen\*. \*Bar\*\*-code\* \*scanning\* of the raw rolls of steel ensure the proper material is being worked on, and... barcode labels for every part number in the crib, which are affixed to categorized bins. \*Portable\* RF data collection \*terminals\* from Symbol Technologies, Holtsville, N.Y., scan the labels and employee numbers, and collect other...

...problems to the assembly point where they happened.

RF communication also is being paired with \*voice\* \*recognition\* software for voice-based data collection terminals. With microphone headsets and wires leading to compact...

**15/3,K/3 (Item 3 from file: 15)**

DIALOG(R)File 15:ABI/Inform(R)  
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01180397 98-29792

**RFDC: More capability and options than ever**

Schwind, Gene F

Material Handling Engineering v51n3 PP: 101-106 Mar 1996

ISSN: 0025-5262 JRNL CODE: MTH

WORD COUNT: 1820

...ABSTRACT: the premiere technology for any mobile computing data input/output and facility management where fully \*portable\*\*-devices\* are involved. It is used wherever the cost of running wires would be too complex...

...TEXT: the premiere technology for any mobile computing data input/output and facility management where fully \*portable\* \*devices\* are involved. It is used wherever the cost of running wires would be too complex...

...transceiver);

\* Remote transceivers and sometimes a network controller or wireless modem(s);

- \* Various data collection \*devices\*;
- \* Interactive peripheral \*devices\*.

\*Radio\* frequency data communication does more than cut the cord. It can greatly improve the way...

...functions.

RFDC, while associated with code scanning of all types, is also used to connect \*remote\* fixed \*devices\* that report to computer data bases.

Consider these advantages of RFDC:

- \* Unrestricted worker movement;

- \* Connects...

...in the first place.

But RF also supports a wide range of extensions such as \*voice\* \*recognition\*, keypads and input terminals, pen-based note pads and other devices that do not necessarily...

...be done as part of the battery-charging operation.

Some new systems transmit information over \*cellular\* \*phone\* modems. Communication is often done in a batch mode because it is less expensive. No...

... an FCC license or dedicated frequency. This is usually handled with a contract with the \*cell\* \*phone\* provider for a monthly rate and special connections with the host computer.

Input device possibilities...

...held code scanners of all types including radio frequency identification circuits;

- \* Hand held data entry \*terminals\*;
- \* \*Portable\*, pen-based personal computers;
- \* RF wand scanners;
- \* Radio frequency data capture (RFDC) \*devices\*;
- \* \*Wireless\* modems;
- \* \*Voice\* \*recognition\* systems;
- \* Portable printers;
- \* Lift truck-mounted data communications terminals with \*screens\*, \*keypads\*, \*printers\*, laser \*bar\* \*code\* \*scanners\*;
- \* Lift truck fleet communication and control systems;
- \* Scales;
- \* Batch terminals;
- \* Point-of-sale terminals (cash...)

60614199 92-29302  
Pen-Based Computers - A Co...

... 9,600 bits per second (bps), requires an FCC license, can handle up to 128 \*remote\* \*devices\* per controller and has a range of about one mile.

Spread spectrum handles 192,000...operating hours or capture the operator's identification.

A \$3,000 system consists of a \*portable\* \*terminal\*, base station and simple software you can configure to your needs. You also provide the...

... feet. You can add hand held terminals for about \$1,300 each, depending upon the \*terminal\* complexity.

\*Radio\* frequency is fairly easy to cost-justify based on accuracy and productivity gains. Additionally, there...

...to replenish the picking face.

A new RFDC system called Micro-Wand RF Lite uses \*cellular\* \*phone\* lines. The result is a wide area network (WAN) with virtually no limitations. These systems...

...DESCRIPTORS: \*Handheld\* \*computers\*

**15/3,K/4 (Item 4 from file: 15)**  
DIALOG(R)File 15:ABI/Inform(R)  
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00993924 96-43317

**Retro tech**

Appleby, Chuck

Hospitals & Health Networks v69n5 PP: 40-42 Mar 5, 1995

ISSN: 1068-8838 JRNL CODE: HPT

WORD COUNT: 1948

...TEXT: ICU patients," says Mychelle Mowry, an executive at Denver's HealthOne system. She adds that \*handheld\* \*computers\* from Clinicom and Hewlett-Packard are attractive tools for busy clinicians who will still need... chance for extensive adoption of bar codes had passed. Other technologies, ranging from computer touch \*screens\* to \*voice\* \*recognition\* systems and optical \*scanners\*, have since elbowed \*bar\* \*codes\* to the sidelines.

Even departmental use of bar codes is problematic. Bruce Friedman, M.D...

**15/3,K/5 (Item 5 from file: 15)**  
DIALOG(R)File 15:ABI/Inform(R)  
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00614199 92-29302

**Pen-Based Computers - A Cost Engineer's Dream Come True?**

McDonald, Donald F., Jr.

Cost Engineering v34n5 PP: 26-27 May 1992

ISSN: 0274-9696 JRNL CODE: ACO

WORD COUNT: 871

**ABSTRACT:** Today's new pen-based \*portable\* \*computers\* are IBM-compatible computer systems that utilize a handwriting recognition system in combination with a...

... bar coding and optical character recognition capabilities, 2. links to central computer databases, and 3. \*voice\* \*recognition\*/input. This last item, while eliminating the pen input system, will afford the cost engineer

... TEXT: Among the most talked about computer systems today are the new penbased \*portable\* \*computers\* , which have the unique characteristic of having the video screen (a visual output device) serve...

... minimizing input error. I foresee the pen being used to input information on the computer \*screen\* while also being able to \*scan\* \*bar\* \*codes\* . The OCR (optical character recognition) capabilities, or scanning of text, is necessary to gradually get...

... 9600 Baud), or with physical links such as ethernet ports. Nontraditional links may be with \*cellular\* \*phone\* technology or infra-red radio links.

\* \*VOICE\* \*RECOGNITION\*/INPUT. Cost engineers who spend time in the field collecting data could utilize the voice...

... eliminate the need for pen or keyboard input, freeing their hands for other uses. The \*voice\* \*recognition\* technology could be integrated with virtual reality systems so that a glove on the user...

...DESCRIPTORS: \*Portable\* \*computers\*;

**15/3,K/6 (Item 1 from file: 9)**

DIALOG(R)File 9:Business & Industry(R)  
(c) 2003 Resp. DB Svcs. All rts. reserv.

3373116 Supplier Number: 03373116 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Ways To Pay With Finger Or Phone**

**(New technologies are emerging that could substitute for credit or debit cards)**

Card Technology, v 3, n 3, p 14

March 2002

DOCUMENT TYPE: Journal; Industry Overview ISSN: 1093-1279 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 1311

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...the card-replacement technologies being tested are paying by pressing a fingerprint to a scanning \*device\*, \*radio\*-frequency tokens similar to the Mobil Speedpass (Card Technology, September 2001), and new approaches to the growing list of pay-by-\*mobile\*-\*phone\* alternatives (Card Technology, October 2001.)

...with a physical characteristic, such as a fingerprint, is perhaps the most radical approach, as \*biometrics\* are a still-maturing technology not widely used in retail applications.

Oakland, Calif.-based Indivos...

...comparison takes no more than 2 seconds, Ross says.

Some industry executives are skeptical that \*biometrics\* are accurate enough for use as a payment device, and a study by German savings...

...they handle. But one industry executive familiar with the program says, "Indivos is promoting its \*biometric\* solution as way to avoid paying credit card fees."

If it is, it is not...

...Pay By Phone

The other device being widely discussed as a payment tool is the \*mobile\* \*phone\*. Coffee chain Starbucks launched in November a test of a cashless payment service at 11...

...are many mobile payment tests in Europe. In Spain, the Mobipay consortium of banks and \*mobile\* \*phone\* operators is testing its payment service in a Madrid shopping mall, where 300 consumers pay...

...the pay-by-phone arena is focusing on consumer purchases of such digital goods as \*mobile\* \*phone\* ring tones and music. Once that service is established, Encorus Technologies plans to expand its...the United Kingdom, Italy and Germany by the UK's Vodafone, the world's largest \*mobile\* \*phone\* operator with 100 million subscribers, says John Duncan, managing director of eOne Global. He says the T-\*Mobile\* \*unit\* of Deutsche Telekom also has agreed to test the software.

Consumers sign up with their...

...Encorus has developed a technology for face-to-face transactions, in which the handset's \*screen\* displays a \*bar\* \*code\* linked to a payment method. The merchant \*scans\* the bar code to charge the consumer, instead of swiping a payment card.

"There still...

15/3,K/7 (Item 1 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0828150 BW1098

SHARP ELECTRONICS: Sharp Adds Four New Features To ARM7 Hardware Development Toolkit; The LU7790H2A Now Supports Color and DMTN Displays, Touch Panel and \*Voice\* \*Recognition\*

March 31, 1998

Byline: Business Editors

... ARM7 Hardware Development Toolkit; The LU7790H2A Now Supports Color and DMTN Displays, Touch Panel and \*Voice\* \*Recognition\*

...additions to its LH77790A embedded microcontroller.

Color STN, DMTN support, touch panel display interface and \*voice\* \*recognition\*/compression are all enhancements available as an upgrade to Sharp's current LU7790H2A Hardware Development...

...s LH77790A embedded microcontroller is a low-cost, low-power, high-performance solution for such \*portable\* electronic \*devices\* as point-of-sale terminals, 2-D barcode scanners, global position systems and communications \*devices\*. It supports \*wireless\*,

cable and visual communication with its built-in ports. An IrDA/DASK modulator/demodulator facilitates...

...many designs for embedded applications.

LH77790A Applications

-- Point-of-sale and inventory applications such as \*bar\*-\*code\* \*scanners\* and portable inventory controllers ideal for \*voice\* \*recognition\* and touch \*screen\*.

-- Industrial instrumentation such as medical monitors, portable oscilloscopes, logic analyzers and spectrum analyzers -- perfect for color and/or touch screen.

-- Handheld personal equipment such as GPS, \*personal\* \*digital\* \*assistants\*, handheld communication devices and games -- DMTN, color and voice capabilities will further enhance these products...

15/3,K/8 (Item 1 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou. (R)  
(c) 2003 The Gale Group. All rts. reserv.

02814699 Supplier Number: 70735538 (USE FORMAT 7 FOR FULLTEXT)  
**Odyssey Technology, Inc. Deploys CA's Unicenter TNG to Secure and Manage Highly Complex and Distributed eCommerce Environments.**

PR Newswire, pNA  
Feb 22, 2001

Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 928

... a turnkey eCommerce infrastructure for the retail grocery market that incorporates cutting-edge technologies, including \*wireless\* \*devices\* integrating \*voice\* \*recognition\*, touch \*screens\* and \*bar\* \*code\* \*scanning\*. The far-reaching system enables consumers to easily submit orders to retail establishments, while also...

...and detailed consumer activity databases.

"Unicenter TNG is enabling Odyssey to control, update and maintain \*remote\* \*devices\*, as well as the backend servers that constitute the company's eCommerce backbone," Barbosa added...

...and connectivity tools with its innovative integration of voice, touch and bar code scanning into \*wireless\* \*devices\* to simplify and make intuitive the customer experience. Founded and managed by pioneers and authorities...

?

show files  
File 636:Gale Group Newsletter DB(TM) 1987-2003/Jun 09  
    (c) 2003 The Gale Group  
File 613:PR Newswire 1999-2003/Jun 11  
    (c) 2003 PR Newswire Association Inc  
File 813:PR Newswire 1987-1999/Apr 30  
    (c) 1999 PR Newswire Association Inc  
File 16:Gale Group PROMT(R) 1990-2003/Jun 11  
    (c) 2003 The Gale Group  
File 160:Gale Group PROMT(R) 1972-1989  
    (c) 1999 The Gale Group  
File 634:San Jose Mercury Jun 1985-2003/Jun 10  
    (c) 2003 San Jose Mercury News  
File 148:Gale Group Trade & Industry DB 1976-2003/Jun 10  
    (c) 2003 The Gale Group  
File 20:Dialog Global Reporter 1997-2003/Jun 11  
    (c) 2003 The Dialog Corp.  
? ds

Set	Items	Description
S1	1313727	(MOBILE OR RADIO OR PORTABLE OR CELLULAR OR REMOTE OR WIRELESS) (3N) (UNIT? OR DEVICE? ? OR APPARATUS OR TELEPHONE? ? OR PAGER? ? OR TERMINAL?) OR (WIRELESS OR CELL? OR MOBILE) () PHONE? OR CELLPHONE?
S2	715638	PDA OR PERSONAL()DIGITAL()ASSISTANT? OR (POCKET OR PORTABLE OR PALM()TOP OR PALMTOP OR HAND()HELD OR HANDHELD) ()COMPUTER? OR PALM? OR HANSDRING OR BLACKBERRY
S3	78214	VOICE() (PRINT? OR PATTERN? ? OR SIGNATURE? OR CHARACTERISTIC? OR RECOGNITION) OR DIGITAL()VOICE OR BIOMETRIC? OR BIO-()METRIC?
S4	1147757	BARCODE? OR BAR()CODE? OR IPC OR SKU OR CODE
S5	916384	SCREEN OR SCREENS
S6	927910	DISPLAY
S7	1980822	SCAN? OR READER?
S8	6777	(S1 OR S2) (S)S4(S)S7
S9	183	S8(10N)S5
S10	133	RD (unique items)
S11	76	S10 NOT PD=20000713:20030612
S12	897	S4(5N)S5(5N)S7
S13	306	S12 AND (S1 OR S2)
S14	20	S13 AND S3
S15	16	S14 NOT PD=20020713:PD=030612
	?	

For more information  
please contact us or call  
also...

and click

15/3,K/1 (Item 1 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2003 The Gale Group. All rts. reserv.

04914740 Supplier Number: 70737984 (USE FORMAT 7 FOR FULLTEXT)  
**Odyssey Technology, Inc. deploys CA's Unicenter TNG to secure and manage highly complex and distributed eCommerce environments; CA's eBusiness infrastructure management solution helps retail exchange provider strengthen relationships between consumers and manufacturers.**

M2 Presswire, pNA

Feb 22, 2001

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 962

... a turnkey eCommerce infrastructure for the retail grocery market that incorporates cutting-edge technologies, including \*wireless\* \*devices\* integrating \*voice\* \*recognition\*, touch \*screens\* and \*bar\* \*code\* \*scanning\*. The far-reaching system enables consumers to easily submit orders to retail establishments, while also...and detailed consumer activity databases.

"Unicenter TNG is enabling Odyssey to control, update and maintain \*remote\* \*devices\*, as well as the backend servers that constitute the company's eCommerce backbone", Barbosa added...and connectivity tools with its innovative integration of voice, touch and bar code scanning into \*wireless\* \*devices\* to simplify and make intuitive the customer experience. Founded and managed

15/3,K/2 (Item 1 from file: 613)  
DIALOG(R)File 613:PR Newswire  
(c) 2003 PR Newswire Association Inc. All rts. reserv.

00520650 20010222NYTH013 (USE FORMAT 7 FOR FULLTEXT)  
**Odyssey Technology, Inc. Deploys Ca's Unicenter Tng to Secure And Manage Highly Complex And Distributed Ecommerce Environments**  
PR Newswire  
Thursday, February 22, 2001 09:05 EST  
JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSPRICE  
WORD COUNT: 875

TEXT:

...a turnkey eCommerce infrastructure for the retail grocery market that incorporates cutting-edge technologies, including \*wireless\* \*devices\* integrating \*voice\* \*recognition\*, touch \*screens\* and \*bar\* \*code\* \*scanning\*. The far-reaching system enables consumers to easily submit orders to retail establishments, while also...  
625  
USE FORMAT 7 FOR FULLTEXT  
Put Power In Your Hands. (R)

...and detailed consumer activity databases.

"Unicenter TNG is enabling Odyssey to control, update and maintain \*remote\* \*devices\*, as well as the backend servers that constitute the company's eCommerce backbone," Barbosa added...  
825  
USE FORMAT 7 FOR FULLTEXT  
Put Power In Your Hands. (R)

...and

connectivity tools with its innovative integration of voice, touch and bar code scanning into \*wireless\* \*devices\* to simplify and make intuitive the customer experience. Founded and managed by pioneers and authorities...

15/3,K/3 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2003 The Gale Group. All rts. reserv.

08354940 Supplier Number: 70735538 (USE FORMAT 7 FOR FULLTEXT)  
**Odyssey Technology, Inc. Deploys CA's Unicenter TNG to Secure and Manage Highly Complex and Distributed eCommerce Environments.**  
PR Newswire, pNA  
Feb 22, 2001  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 928

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...and connectivity tools with its innovative integration of voice, touch and bar code scanning into \*wireless\* \*devices\* to simplify and make intuitive the customer experience. Founded and managed by pioneers and authorities...

15/3,K/4 (Item 2 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2003 The Gale Group. All rts. reserv.

06309758 Supplier Number: 54530529 (USE FORMAT 7 FOR FULLTEXT)  
**Put Power In Your Hands. (Dauphin Technology's Orasis \*handheld\* \*computer\* ) (Hardware Review) (Evaluation)**  
Hudson, I.J.  
InternetWeek, p34(1)  
May 3, 1999  
Language: English Record Type: Fulltext  
Article Type: Evaluation  
Document Type: Newsletter; Trade  
Word Count: 425

(USE FORMAT 7 FOR FULLTEXT)  
**Put Power In Your Hands. (Dauphin Technology's Orasis \*handheld\* \*computer\* ) (Hardware Review) (Evaluation)**  
TEXT:  
Dauphin Technology Inc.'s Orasis \*handheld\* \*computer\* seems like the kind of machine Batman would keep on his utility belt. It combines...  
... unit with GlobeWave's \$499 Complete PC Card, which serves as a self-contained \*cell\* \*phone\* and modem in a single Type III card, making the Orasis totally wireless.

For input, users can choose between an infrared pen, \*voice\* \*recognition\* or the keyboard. A touch screen is optional. The Orasis also

can accept input from a video source, a GPS or a \*bar\* \*code\* \*scanner\*. It includes a built-in, 7.7-inch color \*screen\* that is readable even in direct sunlight.

This flexibility makes the Orasis an ideal building...

**15/3,K/5 (Item 3 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2003 The Gale Group. All rts. reserv.

05940194 Supplier Number: 53191140 (USE FORMAT 7 FOR FULLTEXT)

**TECHNOPHARMACY.**

Drug Topics, p56(1)

Nov 2, 1998

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 2946

... CD-ROM drives, electronic Rx transfer, access to the Internet, bar-code scanners, and even \*voice\*-\*recognition\* software are among the enhancements topping the technology wish list of our pharmacists.

It's...

...several R.Ph.s mentioned they'd like to be able to call up on \*screen\* a picture of the drug being dispensed.

\*Bar\*-\*code\* \*scanning\* got a thumbs-up from pharmacists seeking a tighter safety net. These R.Ph.s...32% of chains.

Pros and cons

On the upside, the technogeeks have given us ATMs, \*cellular\* \*phones\*, and voice mail. On the downside, ATMs eat plastic cards for lunch; \*cell\* \*phones\* lead to vehicular carnage on the highway; and voice mail has become a black hole...

**15/3,K/6 (Item 4 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2003 The Gale Group. All rts. reserv.

04056565 Supplier Number: 45901713 (USE FORMAT 7 FOR FULLTEXT)

**Getting a handle on hand-held terminals**

Automatic I.D. News, p37

Nov 1, 1995

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1675

... so popular, or why you aren't using them, read on.

In basic terms, a \*portable\* \*terminal\* is simply a device for collecting data here so that it can be used there...

...connection. In the 'old days,' such a device might have been called a 'clipboard.' Today, \*portable\* \*terminals\* bring the speed and accuracy of automatic data collection, plus microprocessor computing power, to a...

...memory and radio frequency identification (RF/ID) readers are also available, as are touchscreens and \*voice\* \*recognition\*. These inputs may be integrated into the terminal (as with touchscreen) or separate (as with...

...provide a way to verify data that has been entered, typically a visual display (although \*voice\* \*recognition\* systems use auditory responses). A \*portable\* \*terminal\* should have a keypad to allow entry of data that is

\*portable\* \*terminal\* (unless it has true PC compatibility, as a number of devices now do).

Memory  
For...

...to uses such as picking, where a number of picking transactions are downloaded to the \*portable\* \*terminal\* at once.

In both cases, two types of memory are typically required: data memory and...

...cases, PC Card memory can be added to augment either RAM or ROM.

Data input

\*Portable\* \*terminals\* today offer a wide range of inputs, including: bar code, \*voice\* \*recognition\*, contact memory, RF/ID, touchscreen (and pen-based), handwriting recognition and magnetic stripe.

Some devices offer two or three technologies in addition to RF/DC).

Communications

Every \*portable\* \*terminals\* has some way to communicate with a host computer. These range from optical interfaces...

...to the host). All offer serial communications; most offer parallel; some offer additional options. Many \*portable\* \*terminals\* have integrated or add-on RF/DC modules.

Ergonomics

Each applications dictates its own ergonomics and \*portable\* \*terminals\* reflect this.

For some applications, small size and light weight are important. Some multifunction readers...

...applications, having a pistol grip is important (as with many multifunction readers and even some \*hand\*-\*held\* \*computers\* and electronic clipboards).

In still other applications, the type and placement of the keypad is

...

...choice can have a significant impact on ergonomics.

Because of the number and diversity of \*portable\* \*terminals\* available on the market today, it's impossible to do more than summarize their general capabilities. For a listing of companies offering \*portable\* \*terminals\*, please see the AUTOMATIC I.D. NEWS REFERENCE GUIDE & DIRECTOR. AUTOMATIC I.D. NEWS is also developing a comprehensive buyer's guide focused exclusively on \*portable\* \*terminals\*, listing manufacturers and distributors in separate sections. This comprehensive listing will soon be posted on...

15/3,K/7 (Item 1 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

13392410 SUPPLIER NUMBER: 68643941 (USE FORMAT 7 OR 9 FOR FULL TEXT) SUPPLIER NUMBER  
NEW PRODUCTS & SERVICES. (News Briefs) SUPPLIER NUMBER  
Health Management Technology, 21, 12, 58  
Dec, 2000  
ISSN: 1074-4770 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 1580 LINE COUNT: 00141

... Voice Messenger. Features include transferring time-sensitive information accurately and securely, and delivering messages to \*cellular\* \*phones\*, \*pagers\* and PDAs. The software is also effective for network and operations management by providing two...

...to enter information or download demographic from most medical billing systems. --21st Century Eloquence, West \*Palm\* Beach, FL, [www.eloquentlystated.com](http://www.eloquentlystated.com)

Circle 177  
From Cine to Digital  
A system that will...

...sensor and recognition software is being incorporated into Chicony keyboards. Place your finger on the \*biometrics\* reader and the system reads body temperature, pressure and the individual swirls of the fingerprint...with a variety of automatic data collection and communication technologies, including 2D image engine, laser \*bar\* \*code\* \*scanners\*, PC-card radios and touch \*screen\*. It features 206 Mhz Intel(R) StrongARM(R) high-performance, low-power consumption RISC Processor...

**15/3,K/8 (Item 2 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

13129603 SUPPLIER NUMBER: 70735538 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Odyssey Technology, Inc. Deploys CA's Unicenter TNG to Secure and Manage  
Highly Complex and Distributed eCommerce Environments.  
PR Newswire, NA  
Feb 22, 2001  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 928 LINE COUNT: 00087

... a turnkey eCommerce infrastructure for the retail grocery market that incorporates cutting-edge technologies, including \*wireless\* \*devices\* integrating \*voice\* \*recognition\*, touch \*screens\* and \*bar\* \*code\* \*scanning\*. The far-reaching system enables consumers to easily submit orders to retail establishments, while also...

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...and connectivity tools with its innovative integration of voice, touch and bar code scanning into \*wireless\* \*devices\* to simplify and make intuitive the customer experience. Founded and managed by pioneers and authorities...

**15/3,K/9 (Item 3 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

11755859 SUPPLIER NUMBER: 55721194 (USE FORMAT 7 OR 9 FOR FULL TEXT) 34(1)  
HotList. (News Briefs) May 3, 1999  
Health Management Technology, 20, 8, 52  
Sept, 1999  
ISSN: 1074-4770 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 995 LINE COUNT: 00373

... Financial and Business Office Applications  
\* July, Wireless Computers and Networks  
\* August, Emerging Technologies (Voice, PDAs, \*biometrics\* and others)

- \* September, Home Care
- \* October, Practice Management
- \* November, Case, Outcomes, and Quality Management
- \* December...

...95/98/NT Windows 95/98/NT  
operating system(s)

Input device capability	Keyboard/mouse, pen	*Bar* *code* *scanner*, keyboard/mouse, touch *screen*, voice, pen, *wireless* *devices*
	Delta Health Systems, an SMS company	Eltrax Health Card Solutions
Circle card number Recommended operating system(s)	253 Windows 95/98/NT, UNIX	254... Windows 95/98/NT
Input device capability	*Bar* *code* *scanner*, keyboard/mouse, touch *screen*, voice, pen	keyboard/mouse, pen
	Vertical Systems, Inc.	MEDITECH (Medical Information Technology, Inc.
Circle card number Catered to your operating system(s)	262 Windows 95/98, NT, requirements	265... DOS, Magic
Input device *scanner* capability	*Bar* *code* *scanner*, keyboard/mouse, touch *screen*, voice, pen, *Palm*	*Barcode*

15/3, K/10 (Item 4 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

11003235 SUPPLIER NUMBER: 54530529 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Put Power In Your Hands. (Dauphin Technology's Orasis \*handheld\* \*computer\*  
) (Hardware Review) (Evaluation)  
Hudson, I.J.  
InternetWeek, 34(1)  
May 3, 1999  
DOCUMENT TYPE: Evaluation ISSN: 1096-9969  
RECORD TYPE: Fulltext  
WORD COUNT: 441 LINE COUNT: 00037

Put Power In Your Hands. (Dauphin Technology's Orasis \*handheld\* \*computer\*  
) (Hardware Review) (Evaluation)

TEXT:

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For input, users can choose between an infrared pen, \*voice\* \*recognition\* or the keyboard. A touch screen is optional. The Orasis also can accept input from a video source, a GPS or a \*bar\* \*code\* \*scanner\*. It includes a built-in, 7.7-inch color \*screen\* that is readable even in direct sunlight.

This flexibility makes the Orasis an ideal building...

**15/3,K/11 (Item 5 from file: 148)**  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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10601151 SUPPLIER NUMBER: 53191140 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**TECHNOPHARMACY.**  
Drug Topics, 56(1)  
Nov 2, 1998  
ISSN: 0012-6616 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 3079 LINE COUNT: 00242

... CD-ROM drives, electronic Rx transfer, access to the Internet, bar-code scanners, and even \*voice\*-\*recognition\* software are among the enhancements topping the technology wish list of our pharmacists.

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\*Bar\*-\*code\* \*scanning\* got a thumbs-up from pharmacists seeking a tighter safety net. These R.Ph.s...32% of chains.

Pros and cons

On the upside, the technogeeks have given us ATMs, \*cellular\* \*phones\*, and voice mail. On the downside, ATMs eat plastic cards for lunch; \*cell\* \*phones\* lead to vehicular carnage on the highway; and voice mail has become a black hole...

**15/3,K/12 (Item 6 from file: 148)**  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

07753722 SUPPLIER NUMBER: 16645491 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Retro tech. (trends in medical technology)**  
Appleby, Chuck  
Hospitals & Health Networks, v69, n5, p40(3)  
March 5, 1995  
ISSN: 1068-8838 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 2146 LINE COUNT: 00168

... ICU patients," says Mychelle Mowry, an executive at Denver's HealthOne system. She adds that \*handheld\* \*computers\* from Clinicom and Hewlett-Packard are attractive tools for busy clinicians who will still need...ED to the executive suite.

By the late 1980s, the chance for extensive adoption of \*bar\* \*codes\* had passed. Other technologies, ranging from computer touch \*screens\* to \*voice\* \*recognition\* systems and optical \*scanners\*, have since elbowed \*bar\* \*codes\* to the sidelines.

Even departmental use of bar codes is problematic. Bruce Friedman, M.D...

15/3, K/13 (Item 7 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c) 2003 The Gale Group. All rts. reserv.

07609687      SUPPLIER NUMBER: 15920918      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Tracking all trucks. (mobile communication systems for vehicle fleets)**  
Candler, Julie  
Nation's Business, v82, n12, p60(3)  
Dec, 1994  
ISSN: 0028-047X      LANGUAGE: ENGLISH      RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1890      LINE COUNT: 00148

... few years, he says, the Federal Communications Commission's awarding of more radio frequencies for \*mobile\* communications \*devices\* will increase competition and drive down prices.

The increasing use of mobile communications for companies...

...was created by Dallas-based HighwayMaster, and at its heart in each truck is a \*cellular\* \*telephone\* connected to software. The phone enables the computer in the truck to communicate with the...

...seamless communication for both voice and data, meaning no delays when trucks move from one \*cellular\*-\*phone\* region to another. The system "works everywhere, on every cellular system," says Bill Saunders, president

... officer of the three-year-old company.

A dispatcher can send written instructions to a \*mobile\* data \*terminal\* in the vehicle or talk with a driver almost anywhere the truck travels. The system's \*voice\*-recognition\* technology enables the driver to place a call without taking his eyes from the road...

...are outfitted with a version of Ameritech's wireless data service; each truck has a \*bar\*-code\* \*scanner\* and a printer instead of a keyboard or a \*screen\*, and it also has a \*cellular\* \*phone\*.

The system's primary use, says Tom Stedman, director of corporate transportation at Walgreen, is...

...s and passenger's seats in the truck and linked to the home office via \*cellular\* \*phone\*. It collects payroll information on drivers delivering to 2,000 stores in 34 states.

"It...a truckload carrier in Cedar Rapids, Iowa, communicates with its drivers through Rockwell International's \*mobile\* data \*terminal\* screen. The home office's messages to drivers appear on the screen, and drivers can...

...mobile-communication systems are neither cellular nor satellite-based. ... Using wireless data communications, hand-held \*portable\* \*computers\*, and bar-code scanners, many smaller fleets are collecting information on shipments as the freight... intuitively tie, customer

15/3, K/14 (Item 1 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2003 The Dialog Corp. All rts. reserv.

15291728 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
Computer Associates: Odyssey Technology, Inc. deploys CA's Unicenter TNG to  
secure and manage highly complex and distributed eCommerce environments;  
CA's eBusiness infrastructure management solution helps retail exchange

**provider strengthen relationships**  
M2 PRESSWIRE  
February 22, 2001  
JOURNAL CODE: WMPR LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 853

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... a turnkey eCommerce infrastructure for the retail grocery market that incorporates cutting-edge technologies, including \*wireless\* \*devices\* integrating \*voice\* \*recognition\*, touch \*screens\* and \*bar\* \*code\* \*scanning\*. The far-reaching system enables consumers to easily submit orders to retail establishments, while also...  
... and detailed consumer activity databases.

"Unicenter TNG is enabling Odyssey to control, update and maintain \*remote\* \*devices\*, as well as the backend servers that constitute the company's eCommerce backbone", Barbosa added...

... and connectivity tools with its innovative integration of voice, touch and bar code scanning into \*wireless\* \*devices\* to simplify and make intuitive the customer experience. Founded and managed by pioneers and authorities...

**15/3,K/15 (Item 2 from file: 20)**  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2003 The Dialog Corp. All rts. reserv.

15286589 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Odyssey Technology, Inc. Deploys CA's Unicenter TNG to Secure and Manage Highly Complex and Distributed eCommerce Environments**  
PR NEWSWIRE  
February 22, 2001  
JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 864

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... a turnkey eCommerce infrastructure for the retail grocery market that incorporates cutting-edge technologies, including \*wireless\* \*devices\* integrating \*voice\* \*recognition\*, touch \*screens\* and \*bar\* \*code\* \*scanning\*. The far-reaching system enables consumers to easily submit orders to retail establishments, while also...

...and detailed consumer activity databases.  
"Unicenter TNG is enabling Odyssey to control, update and maintain \*remote\* \*devices\*, as well as the backend servers that constitute the company's eCommerce backbone," Barbosa added...  
... and connectivity tools with its innovative integration of voice, touch and bar code scanning into \*wireless\* \*devices\* to simplify and make intuitive the customer experience. Founded and managed by pioneers and authorities...

**15/3,K/16 (Item 3 from file: 20)**  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2003 The Dialog Corp. All rts. reserv.

01305699 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Sharp Adds Four New Features To ARM7 Hardware Development Toolkit; The LU7790H2A Now Supports Color and DMTN Displays, Touch Panel and \*Voice\***

**\*Recognition\***

BUSINESS WIRE

March 31, 1998 10:23

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 616

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... ARM7 Hardware Development Toolkit; The LU7790H2A Now Supports Color and DMTN Displays, Touch Panel and \*Voice\* \*Recognition\*

...additions to its LH77790A embedded microcontroller. Color STN, DMTN support, touch panel display interface and \*voice\* \*recognition\* /compression are all enhancements available as an upgrade to Sharp's current LU7790H2A Hardware Development...

... s LH77790A embedded microcontroller is a low-cost, low-power, high-performance solution for such \*portable\* electronic \*devices\* as point-of-sale terminals, 2-D barcode scanners, global position systems and communications \*devices\*. It supports \*wireless\*, cable and visual communication with its built-in ports. An IrDA/DASK modulator/demodulator facilitates...

... many designs for embedded applications.

LH77790A Applications

-- Point-of-sale and inventory applications such as \*bar\*-\*code\* \*scanners\* and portable inventory controllers ideal for \*voice\* \*recognition\* and touch \*screen\*.

-- Industrial instrumentation such as medical monitors, portable oscilloscopes, logic analyzers and spectrum analyzers -- perfect for color and/or touch screen.

-- Handheld personal equipment such as GPS, \*personal\* \*digital\* \*assistants\*, handheld communication devices and games -- DMTN, color and voice capabilities will further enhance these products...

?

? display sets

Set	Items	Description
S1	345573	(MOBILE OR RADIO OR PORTABLE OR CELLULAR OR REMOTE OR WIRE- LESS) (3N) (UNIT? OR DEVICE? ? OR APPARATUS OR TELEPHONE? ? OR - PAGER? ? OR TERMINAL?) OR (WIRELESS OR CELL? OR MOBILE) () PHON- E? OR CELLPHONE?
S2	221641	PDA OR PERSONAL()DIGITAL()ASSISTANT? OR (POCKET OR PORTABLE OR PALM()TOP OR PALMTOP OR HAND()HELD OR HANDHELD) ()COMPUTER? OR PALM? OR HANSPRING OR BLACKBERRY
S3	30147	VOICE() (PRINT? OR PATTERN? ? OR SIGNATURE? OR CHARACTERIS- TIC? OR RECOGNITION) OR DIGITAL()VOICE OR BIOMETRIC? OR BIO- ()METRIC?
S4	501084	BARCODE? OR BAR()CODE? OR IPC OR SKU OR CODE
S5	291431	SCREEN OR SCREENS
S6	274279	DISPLAY
S7	582153	SCAN? OR READER?
S8	2894	(S1 OR S2) (S) S4 (S) S7
S9	88	S8 (10N) S5
S10	85	RD (unique items)
S11	55	S10 NOT PD=20000713:20030612
?		

11/3,K/1 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

02031534 54890648  
**A farewell to wires**  
Baker, Paddy  
Works Management v53n5 PP: 22-24 May 2000  
ISSN: 0374-4795 JRNL CODE: WMG  
WORD COUNT: 1298

...TEXT: maker Schmalbach-Lubeca are using Teklogix's TekRF system to extend SAP R/3 onto \*mobile\* data \*terminals\*. As with WAP, the \*screen\* display is different from what the PC user would see. Mike Marsh, a director of...

11/3,K/2 (Item 2 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

02021651 53375312  
**Microsoft's centralized services**  
Yager, Tom  
InfoWorld v22n18 PP: 45, 48 May 1, 2000  
ISSN: 0199-6649 JRNL CODE: IFW  
WORD COUNT: 1919

...TEXT: look like Windows. Besides, that approach doesn't work for non-PC clients such as \*cell\* \*phones\* and voice-synthesized \*screen\* \*readers\*. Instead, we must use XML and related technologies such as XSLT (XML Stylesheet Transformations) to...

11/3,K/3 (Item 3 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01988012 49883527  
**Hi-tech procurement**  
Richardson, Helen L  
Transportation & Distribution v41n2 PP: 55-58 Feb 2000  
ISSN: 0895-8548 JRNL CODE: HLS  
WORD COUNT: 1897

...TEXT: disposition and inventory location transfers. They simply select the new receipt transaction from the on-\*screen\* menu, then \*scan\* the \*barcodes\* on the PO and the item. Circle 201.

\* Industrial Data & Information has released an advanced...

11/3,K/4 (Item 4 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01879258 05-30250  
**Managers under pressure**  
Ruriani, Deborah Catalano  
Warehousing Management v6n7 PP: 52-54 Aug 1999

ISSN: 1077-4068 JRNL CODE: WHMG  
WORD COUNT: 1243

...TEXT: 100% of our expectations through technologies, such as portable computers on the warehouse floor and \*barcode\* \*scanning\*."

Ace moved to a touch-\*screen\* computer framework to a pick-and-stick system.

"It makes them successful quicker and from...

11/3,K/5 (Item 5 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01807989 04-58980  
**PocketLog puts data in your palm**  
Parr, Gary L  
Quality v38n5 PP: 128-129 Apr 1999  
ISSN: 0360-9936 JRNL CODE: QUA  
WORD COUNT: 1134

...TEXT: entry devices are designed to accept data input with a simple tap on the Pilot \*screen\* with a stylus. Data input using the \*PalmPilot\* Graffiti writing software or the hunt-and-peck keyboard is kept to an absolute minimum. PocketLog...

11/3,K/6 (Item 6 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01804276 04-55267  
**The freedom to roam**  
McConnell, Edwina A  
Nursing Management v30n4 PP: 51, 54 Apr 1999  
ISSN: 0744-6314 JRNL CODE: NSM  
WORD COUNT: 1226

...TEXT: or laptop, cart-affixed or portable models, equipped with a full keyboard, pen, or touch-\*screen\* input or optional \*bar\* \*code\* \*scanning\*. 6,7 These devices give physicians, nurses, and other health care team members access to...

11/3,K/7 (Item 7 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01699056 03-50046  
**Registering for automotive slalom gets on fast track**  
Tipton, Anne  
Automatic I.D. News v14n10 PP: 28-30 Sep 1998  
ISSN: 0890-9768 JRNL CODE: AIN  
WORD COUNT: 1464

...TEXT: one of 10 workers scan their bar-coded badges with Symbol Technologies' PDT3140 RF/DC \*portable\* \*terminals\*. The \*terminal\* \*screen\* displays the badgeholder's name and how many activities they have completed. Data is then...

11/3,K/8 (Item 8 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01408517 00059504  
**Servicing West Coast customers with automation**  
Gilmore, Dan  
Material Handling Engineering v52n4 PP: 40-46 Apr 1997  
ISSN: 0025-5262 JRNL CODE: MTH  
WORD COUNT: 2214

...TEXT: driven by hand held radio frequency terminals (Teklogix), orderpickers identify pick locations on the RF \*screen\* and confirm the pick's accuracy by \*scanning\* the case \*code\* on each carton. Picks are made directly onto pallets and trucked to the pick belt...

11/3,K/9 (Item 9 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01121955 97-71349  
**Spot data collection at Scan-Tech 95**  
Anonymous  
Transportation & Distribution v36n10 PP: 112-118 Oct 1995  
ISSN: 0895-8548 JRNL CODE: HLS  
WORD COUNT: 477

...TEXT: in this issue for more information on any products listed.

Wireless databases interface

The ScreenShaper \*screen\* translator interfaces warehouse workers using \*portable\* \*terminals\* with a UNIX server running manufacturing software. The workers get only the detail they need...

11/3,K/10 (Item 10 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01116759 97-66153  
**Getting a handle on hand-held terminals**  
Moore, Bert  
Automatic I.D. News v11n12 PP: 36-37+ Nov 1995  
ISSN: 0890-9768 JRNL CODE: AIN

...ABSTRACT: a bar code scanner, although magnetic stripe, contact memory, and radio frequency identification (RF/ID) \*readers\* are also available, as are touch \*screens\* and voice recognition. These inputs may be integrated into the terminal or separate. A terminal...

11/3,K/11 (Item 11 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01070636 97-20030  
**The evolution of the PDF417 communications medium**

Dover, John  
Logistics Information Management v8n2 PP: 34-37 1995  
ISSN: 0957-6053 JRNL CODE: LIM  
WORD COUNT: 1690

...TEXT: own software or use an off-the-shelf package to ensure the information in the \*barcode\* is presented on the \*screen\* in the desired format.

US driving licences

Symbol Technologies has completed a successful trial and...

11/3,K/12 (Item 12 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01044524 96-93917

**Scan what's new at ID Expo**

Anonymous

Transportation & Distribution v36n5 PP: 104-110 May 1995  
ISSN: 0895-8548 JRNL CODE: HLS  
WORD COUNT: 1987

...TEXT: may be entered through the computer's 21-key numeric keyboard, through its touch-sensitive \*screen\*, or by scanning \*bar\* \*codes\*. Because it has 2.4 GHz spread spectrum radio capability, it can be used in...

11/3,K/13 (Item 13 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01006585 96-55978

**PC-based registers: The next generation of point-of-sale technology**

Kasavana, Michael L

Cornell Hotel & Restaurant Administration Quarterly v36n2 PP: 50-55 Apr 1995  
ISSN: 0010-8804 JRNL CODE: CHR  
WORD COUNT: 3040

...TEXT: stripe reader, a receipt printer, and a cash drawer. Other PCR peripherals include touch-\*screen\* monitors, to hand-held \*terminals\*, and \*remote\*-control \*devices\*. In a PCR configuration there can never be too many ports or expansion slots, as...

11/3,K/14 (Item 14 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

00982921 96-32314

**Preview new technology at ProMat 95**

Anonymous

Transportation & Distribution v36n1 PP: 86-96 Jan 1995  
ISSN: 0895-8548 JRNL CODE: HLS  
WORD COUNT: 1609

...TEXT: data entry options. Enter data through its 21-key numeric keyboard, through its touch-sensitive \*screen\*, or by scanning \*bar\*

\*codes\*. It has a 386 25MHz processor and 2.4 GHz spread spectrum radio capability. Norant...

11/3,K/15 (Item 15 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

00980264 96-29657  
**Setting standards for PCMCIA**  
Glidewell, Richard  
Upside v7n3 PP: 90 Mar 1995  
ISSN: 1052-0341 JRNL CODE: UPS  
WORD COUNT: 743

...TEXT: the end of this year, SystemSoft also expects to have their PhoneSoft PCMCIA software in \*cellular\* \*phones\*--displaying news, stock quotes, faxes, etc., on a phone \*\*screen\*. The company estimates royalties on the phones alone at \$10-15 per unit.

Finally, the...

11/3,K/16 (Item 16 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

00932089 95-81481  
**Companies integrate Clinivision with hand held pen computer**  
Anonymous  
Industrial Engineering v26n10 PP: 23 Oct 1994  
ISSN: 0019-8234 JRNL CODE: INE  
WORD COUNT: 329

...TEXT: hand-held computer that incorporates pen input on a 5.5 inch by 3 inch \*screen\*, a graphical user interface, an integrated \*bar\* \*code\* laser \*scanner\* and radio frequency wireless LAN technology via Symbol's Spectrum One radio network. The PPT4100...

11/3,K/17 (Item 17 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

00898128 95-47520  
**Auto ID ... putting the control in inventory control**  
Hornak, J P  
Industrial Engineering v26n8 PP: 16-17 Aug 1994  
ISSN: 0019-8234 JRNL CODE: INE  
WORD COUNT: 892

...TEXT: of the size of most warehouses, this would be impractical at best. However, there are \*portable\* \*terminals\* (hand-held \*devices\* with a small display \*screen\*, a small keyboard and an integrated \*scanner\*) that allow data collection and validation at the point of activity. It is this portability...

11/3,K/18 (Item 18 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

00896261 95-45653

**Portable computing for retailers**

Anonymous

Retail Business-Market Surveys n424 PP: 4-9 Jun 1993

ISSN: 0951-9734 JRNL CODE: RBU

...ABSTRACT: ease of use. One of the significant developments of the 1980s was the integration of \*barcode\* \*readers\* into portables. Now, options involving touch \*screens\* and pen-based systems are on offer from a growing number of suppliers. ...

11/3,K/19 (Item 19 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

(c) 2003 ProQuest Info&Learning. All rts. reserv.

00895647 95-45039

**Green a key color in auto ID**

Davis, Donald

Manufacturing Systems v12n8 PP: 16-26 Aug 1994

ISSN: 0748-948X JRNL CODE: MFS

WORD COUNT: 3140

...TEXT: codes on high-quality reflective stock up to 30 feet away, which allows workers to \*scan\* locations without getting off their lift trucks. Tools like the \*Screen\* Formatter/Optimizer from Teklogix, Florence, Ky., are available to format the smaller \*screens\* on \*portable\* \*terminals\* so that operators only see the fields they need, without modifying the underlying application.

PAYBACK...

11/3,K/20 (Item 20 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

(c) 2003 ProQuest Info&Learning. All rts. reserv.

00879809 95-29201

**Joint partnerships: Washoe Health System searches for cutting-edge solutions**

Hauenstein, James; Grupe, Fritz H

Journal of Systems Management v45n7 PP: 6-9 Jul 1994

ISSN: 0022-4839 JRNL CODE: JSM

WORD COUNT: 3009

...TEXT: is underway in the hospital's respiratory therapy and the laundry and linens departments. Color \*screens\* are contemplated for future \*readers\* because color codings are important to the laboratory department.

BENEFITS OF JOINT PARTNERSHIPS

Some of...

11/3,K/21 (Item 21 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

(c) 2003 ProQuest Info&Learning. All rts. reserv.

00833079 94-82471

**The North American Material Handling Show & Forum**

Anonymous  
Transportation & Distribution v35n3 PP: 80-92 Mar 1994  
ISSN: 0895-8548 JRNL CODE: HLS  
WORD COUNT: 1726

...TEXT: Tennant. Booth 1114. Circle 182

HANDY PEN COMPUTER

The LPT 4100 is a PC-compatible \*hand\*\*held\* \*computer\* incorporating pen input on a 5.5 x 3 in. \*screen\*, a graphical user interface, an integrated \*bar\* \*code\* laser \*scanner\*, and radio

11/3,K/22 (Item 22 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

00819315 94-68707

Office technology: Software

Barth, Claire  
Management Accounting v75n8 PP: 65-66 Feb 1994  
ISSN: 0025-1690 JRNL CODE: NAA  
WORD COUNT: 825

...TEXT: the Itemizer software with United Bar Code Industries' ScanImageTM laser scanner and Panasonic's DatapartnerTM \*portable\* data collection \*terminal\*. Both packages feature complete documentation, on-\*screen\* help, and free technical support.

Circle No. 67

MBS Technologies, Inc., has designed the FileRunner...

11/3,K/23 (Item 23 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

00807074 94-56466

AT&T eliminates wrong numbers with Spectrum One assembly

Anonymous  
Industrial Engineering v26n1 PP: 14 Jan 1994  
ISSN: 0019-8234 JRNL CODE: INE  
WORD COUNT: 726

...ABSTRACT: boards are also bar coded and scanned. The LRT 3800 combines a non-contact laser \*scanner\*, a 16-bit DOS computer, keyboard, and \*screen\* with the Symbol Spectrum One RF network in a \*portable\*, handheld \*device\*. With this system, quality has improved. According to Andy Zumfelde of AT&T, the company...

...TEXT: LRT 3800, combines a non-contact laser scanner, a 16-bit DOS computer, keyboard and \*screen\*, with the Symbol Spectrum One RF network in a \*portable\*, hand-held \*device\*. This transmits the bar coded information back over the network to the facility's designated...

11/3,K/24 (Item 24 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

00770528 94-19920  
**Cellular delivers real-time tracking to UPS**  
Blake, Pat  
Cellular Business v10n10 PP: 31-36 Oct 1993  
ISSN: 0741-6520 JRNL CODE: CLB  
WORD COUNT: 2263

...TEXT: label on the package with the DIAD. The customer's signature is written on its \*screen\*. Its image and the \*barcoded\* information are electronically stored in the DIAD. The driver returns to his truck and inserts...

11/3,K/25 (Item 25 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

00745325 93-94546  
**Tandy superstores turn to wireless**  
Fitzgerald, Michael  
Computerworld v27n29 PP: 44 Jul 19, 1993  
ISSN: 0010-4841 JRNL CODE: COW  
WORD COUNT: 480

...TEXT: inventory status, options and service options, as well as delivery schedules, then appear on the \*PalmPad\* \*screen\*.

When customers finish shopping, they take their cards to the cash registers in the front...

11/3,K/26 (Item 26 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

00723037 93-72258  
**RF update**  
Robins, Gary  
Stores v75n6 PP: 43-46 Jun 1993  
ISSN: 0039-1867 JRNL CODE: STR  
WORD COUNT: 1165

...TEXT: up file located in the instore processor. Employees need only to scan an item's \*bar\* \*code\* with the LRT and compare the price on the \*screen\* to the price on the label.

The streamlined system not only saves time but promotes...

11/3,K/27 (Item 27 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

00606168 92-21271  
**Managing Information Technology: Portable Power**  
Bird, Jane  
Management Today PP: 88-89 Feb 1992  
ISSN: 0025-1925 JRNL CODE: MTO  
WORD COUNT: 1410

...TEXT: enter lots of complications via the keyboard. The Power Book range

have incorporated these features.

\*Portable\* \*computers\* have escaped from the fixed \*screen\* and keyboard format of their predecessors. Variants include electronic pens, \*bar\*- \*code\* readers, text scanners and wearable devices. Phone-line or gaspipe engineers could, for example, carry...

11/3,K/28 (Item 28 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

00549857 91-24214  
**Hand-Held Computers Will Help UPS Track Packages**  
Eckerson, Wayne  
Network World v8n18 PP: 15-16 May 6, 1991  
ISSN: 0887-7661 JRNL CODE: NWW

...ABSTRACT: 14-in. Delivery Information Acquisition Device (DIAD) is microprocessor-based and has a keypad, infrared \*bar\* \*code\* \*scanner\*, small liquid crystal display (LCD) \*screen\*, and electronic signature pad. According to Nick Snider of UPS, use of the device paves...

11/3,K/29 (Item 29 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

00484925 90-10682  
**Handheld Hardware Fills New Niches**  
Deitz, Daniel  
Mechanical Engineering v112n1 PP: 64-67 Jan 1990  
ISSN: 0025-6501 JRNL CODE: MEG

...ABSTRACT: paper tablet does. Tablet-size computers are starting to occupy a distinct niche in the \*portable\* \*computer\* market. \*Screen\* legibility and power consumption require a trade-off in the design of hand-held devices...

... that a conventional PC cannot. The Travelite 286 from DFM Business Systems uses a touch \*screen\* or \*bar\* \*code\* \*reader\* for data input. When outfitted with a bar code reader, the Travelite accepts up to...

11/3,K/30 (Item 30 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

00430776 89-02563  
**Bedside Data System Aids Pharmacy**  
Gammon, Karen; Robinson, Kristi  
Computers in Healthcare v9n12 PP: 35-37 Dec 1988  
ISSN: 0274-631X JRNL CODE: CIH

...ABSTRACT: It acts as a test site for a point-of-care system consisting of a \*portable\* hand-held \*terminal\* with integrated \*bar\*-\*code\* \*reader\* and key pad. A full-\*screen\* monitor is located in each patient room. The system's primary function will be in...

11/3,K/31 (Item 1 from file: 9)

Karen Lehman EIC 3600 11-Jun-03

DIALOG(R)File 9:Business & Industry(R)  
(c) 2003 Resp. DB Svcs. All rts. reserv.

2838344 Supplier Number: 02838344 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Motorola forms bar code company**  
(Motorola, Connect Things, Symbol Technologies and AirClic to establish new  
e-commerce concern based on scanning bar codes; collectively, the  
companies have already invested \$500 mil)  
RCR Radio Communications Report, v 19, p 30  
June 19, 2000  
DOCUMENT TYPE: Journal ISSN: 0744-0618 (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 168

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:  
...with an ad running in the background.

Users interested in the product can use their \*wireless\* \*phone\*, for  
instance, to scan the \*bar\* \*code\* on the \*screen\* of the television or  
brochure and be connected directly to specific Web sites to order...

11/3,K/32 (Item 2 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2003 Resp. DB Svcs. All rts. reserv.

2740219 Supplier Number: 02740219 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Norton launches hi-tech stock system**  
(Norton Healthcare invests UKPd500,000 in new paperless, computerized  
warehouse system, which is expected to increase its picking accuracy to  
99.9%)  
Chemist & Druggist, p 28  
February 19, 2000  
DOCUMENT TYPE: Journal ISSN: 0009-3033 (United Kingdom)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 405

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:  
...stocks. Each warehouse shelf, meanwhile, has its own code. The company's  
warehouse workforce use \*hand\*--\*held\* \*computer\* terminals whose \*screens\*  
tell them which shelf to go to and which products to pick. By scanning the  
...

11/3,K/33 (Item 3 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2003 Resp. DB Svcs. All rts. reserv.

2650220 Supplier Number: 02650220  
**Home Scanning Eases Ordering for On-Line Grocery Customers**  
(Scotty's Home Market conducts trial for using hand-held bar code scanners;  
customers use the devices to scan items to create shopping list)  
Stores, p 24  
November 1999  
DOCUMENT TYPE: Journal ISSN: 0039-1867 (United States)  
LANGUAGE: English RECORD TYPE: Abstract

ABSTRACT:

...website and transmit the order. The device is simply pointed at a product's UPC \*bar\* \*code\* and, upon a press of a button, the Scotty \*Scan\* \*screen\* shows the item information. The \*scanner\* was created by Symbol Technologies (Holtsville, NY), while the accompanying software was created by HighPoint...

11/3,K/34 (Item 4 from file: 9)

DIALOG(R)File 9:Business & Industry(R)  
(c) 2003 Resp. DB Svcs. All rts. reserv.

2551960 Supplier Number: 02551960 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
USPS' new retail services system enters next stage  
(Postal Service unveils second part of its Point of Service One initiative  
with IBM and NCR; to replace 63,000 retail terminals with 73,000 new ones  
)

Government Computer News, v 18, n 25, p 12

August 09, 1999

DOCUMENT TYPE: Journal ISSN: 0738-4300 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 661

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...connect each IBM system to peripherals such as receipt printers, scales, bar code scanners and \*portable\* data \*terminals\*. An IBM 1660-001 monitor with an Elo AccuTouch, touch-\*screen\* from Elo Touch Systems Inc. of Fremont, Calif., will also be hooked up to the...

11/3,K/35 (Item 5 from file: 9)

DIALOG(R)File 9:Business & Industry(R)  
(c) 2003 Resp. DB Svcs. All rts. reserv.

2508321 Supplier Number: 02508321 (USE FORMAT 7 OR 9 FOR FULLTEXT)

TELSTRA DEMONSTRATES HOME NETWORKING WITH IHG  
(Telstra employed IHG Ltd's technology in a demonstration of its new home  
appliance networking service)

Exchange Telecommunications Newsletter, v 11, n 25, p N/A

July 02, 1999

DOCUMENT TYPE: Newsletter (Australia)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 497

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...as the Masternet LMS (Lifestyle Management System). The Masternet LMS has its own email address, \*bar\* \*code\* \*scanner\*, and a touch \*screen\*. According to Telstra, "WAP technology enables a \*mobile\* \*phone\* to remotely access the Masternet LMS to collect shopping lists, program the VCR, check the...

11/3,K/36 (Item 6 from file: 9)

DIALOG(R)File 9:Business & Industry(R)  
(c) 2003 Resp. DB Svcs. All rts. reserv.

2400669 Supplier Number: 02400669

**Split Pea Software**

**(Split Pea Software to partner with HighPoint Systems to create mass-market home shopping system for food retailers)**

Interactive Week, v 6, n 10, p 34

March 08, 1999

DOCUMENT TYPE: Journal ISSN: 1078-7259 (United States)

LANGUAGE: English RECORD TYPE: Abstract

**ABSTRACT:**

...mass-market home shopping system for food retailers. HighPoint makes systems that let consumers use \*bar\*-\*code\* \*scanners\* in conjunction with PCs, \*palmtops\* or \*screen\* phones to create grocery lists from home.

...

11/3,K/37 (Item 7 from file: 9)

DIALOG(R)File 9:Business & Industry(R)  
(c) 2003 Resp. DB Svcs. All rts. reserv.

2380428 Supplier Number: 02380428

**Supermarkets to trial home barcode scanner**

**(Tesco and Safeway, supermarkets, plan to trial the Palm Pilot Scanner, a home shopping system, from Symbol Technology in March and February, respectively)**

Electrical & Radio Trading, p 8

February 18, 1999

DOCUMENT TYPE: Journal ISSN: 0013-4228 (United Kingdom)

LANGUAGE: English RECORD TYPE: Abstract

**ABSTRACT:**

...at home, and then reorder the products via the Tesco Home Shopping online service. The \*Palm\* Pilot touch-\*screen\* personal organiser will be sold directly from Symbol Technology (UK), manufacturer, via Tesco's Web...

11/3,K/38 (Item 8 from file: 9)

DIALOG(R)File 9:Business & Industry(R)  
(c) 2003 Resp. DB Svcs. All rts. reserv.

2294727 Supplier Number: 02294727

**Le terminal portable PPT 4300**

**(Symbol has launched the PPT 4300, a \*mobile\* computer \*device\* with a touch \*screen\*, a keyboard and a \*barcode\* \*scanner\*)**

LSA Libre Service Actualites, p 62

November 12, 1998

DOCUMENT TYPE: Journal ISSN: 0024-2632 (France)

LANGUAGE: French RECORD TYPE: Abstract

**(Symbol has launched the PPT 4300, a \*mobile\* computer \*device\* with a touch \*screen\*, a keyboard and a \*barcode\* \*scanner\*)**

**ABSTRACT:**

Symbol has launched the PPT 4300, a \*mobile\* computer \*device\* with a touch \*screen\*, a keyboard and a \*barcode\* \*scanner\*. The \*device\* uses a \*radio\* link to collect and transmit data.

...

11/3,K/39 (Item 9 from file: 9)

DIALOG(R) File 9:Business & Industry(R)  
(c) 2003 Resp. DB Svcs. All rts. reserv.

1946311 Supplier Number: 01946311 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Symbol introduces Spectrum24 to products**

**(Symbol Technologies uses Spectrum24 wireless communications technology in Spectrum24 pager and NetVision Mobil NC software; Bar Code Systems to supply, install and provide training for Spectrum24)**

Automatic ID News Europe, v 6, n 7, p 6

September 1997

DOCUMENT TYPE: Journal ISSN: 1363-9765 (United Kingdom)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 400

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...or Internet over TCP/IP networks. The technology provides integrated 1-D and 2-D \*barcode\* \*scanning\*, user definable on-\*screen\*, pop-up pen/touch keyboards and tool bars. It also allows network managers to collect...

**11/3,K/40 (Item 1 from file: 610)**

DIALOG(R) File 610:Business Wire

(c) 2003 Business Wire. All rts. reserv.

00300473 20000614166B1661 (USE FORMAT 7 FOR FULLTEXT)

**Zoho Announces First Wireless Handheld Order Entry Device Based on Palm Computing Platform**

Business Wire

Wednesday, June 14, 2000 09:37 EDT

JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 924

...the supplier's name. The user simply enters the order quantity and touches the on-\*screen\* order button to reorder needed supplies. Once all orders are \*scanned\*, the user places the handheld back in its desktop hotsync unit, where the order is...

**11/3,K/41 (Item 2 from file: 610)**

DIALOG(R) File 610:Business Wire

(c) 2003 Business Wire. All rts. reserv.

00274225 20000508129B4831 (USE FORMAT 7 FOR FULLTEXT)

**Pace Exhibits Emerging Technologies at NCTA**

Business Wire

Monday, May 8, 2000 09:13 EDT

JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 1,162

...TV platform running Microsoft TV

- Wireless data transfer to PC from the set-top box
- \*Remote\* tablet \*device\* reduces competition for main TV \*screen\* real-estate
- EPG application allows convenient planning of viewing schedule
- Facilitates on-line shopping without...

11/3,K/42 (Item 3 from file: 610)  
DIALOG(R)File 610:Business Wire  
(c) 2003 Business Wire. All rts. reserv.

00156800 19991214348B0368 (USE FORMAT 7 FOR FULLTEXT)  
**AvantGo Drives Healthcare Market Adoption of Handheld Devices**  
Business Wire  
Tuesday, December 14, 1999 12:38 EST  
JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 1,243

...delivery information. When a container of healthcare supplies is delivered, the driver will scan the \*bar\* code\* on the container, capture an electronic signature on the handheld \*screen\* and resynchronize at the end of the day to quickly and accurately update corporate records...

11/3,K/43 (Item 4 from file: 610)  
DIALOG(R)File 610:Business Wire  
(c) 2003 Business Wire. All rts. reserv.

00087119 19990809221B1395 (USE FORMAT 7 FOR FULLTEXT)  
**Scotty's Home Market Chooses HighPoint Systems' State-of-the-Art Home Shopping Solution**  
Business Wire  
Monday, August 9, 1999 11:29 EDT  
JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 935

...to use bar code scanners, in conjunction with a variety of information appliances such as \*palm\*-sized personal computers, \*screen\* phones or desktop PCs, to create grocery lists and enter orders from the convenience of...

11/3,K/44 (Item 1 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0939220 BW1192

**HIGHPOINT TECHNOLOGIES: United Parcel Service and J. H. Whitney Lead Multi-Million Dollar Investment in Highpoint Systems**

November 16, 1998

Byline: Business/Technology Editors

...with mass-market appeal. The company's patented solution allows consumers to use bar code \*scanners\*, \*palm\*-sized personal computers, or \*screen\* phones to create grocery lists and enter orders from the convenience of their own kitchens...

11/3,K/45 (Item 1 from file: 624)

DIALOG(R)File 624:McGraw-Hill Publications  
(c) 2003 McGraw-Hill Co. Inc. All rts. reserv.

01077488

**A TICKET TO DOT-COM HEAVEN?: Ticketmaster's online service offers high hopes**

Business Week April 10, 2000; Pg 87; Number 3676

Journal Code: BW ISSN: 0007-7135

Section Heading: Information Technology: E-COMMERCE

Word Count: 1,153 \*Full text available in Formats 5, 7 and 9\*

BYLINE:...

actional dBye Arlene Weintraub in Los Angeles, with Timothy J. Mullaney in New York  
and Catherine Yang in Washington

TEXT:

... verify that the tickets are genuine. Every venue accepting them will have to invest in \*scanning\* equipment to \*screen\* out fakes. And the homemade tickets will come with coupons for nearby restaurants and parking

...

**11/3,K/46 (Item 2 from file: 624)**

DIALOG(R)File 624:McGraw-Hill Publications

(c) 2003 McGraw-Hill Co. Inc. All rts. reserv.

0604485

**WIRELESS, PALMTOP COMPUTER**

Aviation Week & Space Technology October 3, 1994; Pg 78; Vol. 141, No. 14

Journal Code: AW ISSN: 0005-2175

Section Heading: IPN International Product News: Information Technology

Word Count: 108 \*Full text available in Formats 5, 7 and 9\*

TEXT:

The RF-100 hand-held full-\*screen\* \*wireless\* \*terminal\* is a 2-lb. \*palmtop\* device with a removable, rechargeable battery. Operators can send and receive full screens without software...

**11/3,K/47 (Item 3 from file: 624)**

DIALOG(R)File 624:McGraw-Hill Publications

(c) 2003 McGraw-Hill Co. Inc. All rts. reserv.

0538621

**ONE PERSONAL DIGITAL ASSISTANT THAT ACTUALLY DOES ITS JOB**

Business Week January 17, 1994; Pg 84A; Number 3354

Journal Code: BW ISSN: 0007-7135

Section Heading: Information Processing

Word Count: 169 \*Full text available in Formats 5, 7 and 9\*

BYLINE:

EDITED BY PAUL M. ENG

TEXT:

...Symbol Technologies Inc., is about the size of a videocassette and has a built-in \*scanner\* to read \*bar\* \*codes\* on packages. A touch \*screen\* can be used to enter data by pushing virtual buttons or writing numbers such as

...

**11/3,K/48 (Item 1 from file: 621)**

Karen Lehman EIC 3600 11-Jun-03

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2003 The Gale Group. All rts. reserv.

02552420 Supplier Number: 62977567 (USE FORMAT 7 FOR FULLTEXT)  
**Vertical Industries Turning to Pocket PCs for Development and Deployment.**

PR Newswire, pNA  
June 27, 2000  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 1170

... MTS and MSMQ) for direct remote data access from Pocket PCs and other Windows-powered \*mobile\* \*devices\*. The transactional data integrity, high-resolution color \*screen\* with the plug-in digital camera, integrated Web browser and support for eMbedded Visual Basic...

**11/3,K/49 (Item 2 from file: 621)**  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2003 The Gale Group. All rts. reserv.

02459483 Supplier Number: 61554624 (USE FORMAT 7 FOR FULLTEXT)  
**3Com Honors Winners of Fourth Annual Retail Network Innovation Awards;**  
**E-Commerce and Web Technologies Transform Business for Creative**  
**Retailers.**  
Business Wire, p1655  
April 18, 2000  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 1278

... the list for that particular order by pressing an icon on the handheld's touch \*screen\*, or uses the unit's built-in \*barcode\* \*reader\* to \*scan\* items already on the pantry shelf. When ready to order, the customer simply attaches the...

**11/3,K/50 (Item 3 from file: 621)**  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2003 The Gale Group. All rts. reserv.

01757007 Supplier Number: 53219970 (USE FORMAT 7 FOR FULLTEXT)  
**REPEAT/ United Parcel Service and J. H. Whitney Lead Multi-Million Dollar**  
**Investment in HighPoint Systems.**  
Business Wire, p1555  
Nov 16, 1998  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 935

... with mass-market appeal. The company's patented solution allows consumers to use bar code \*scanners\*, \*palm\*-sized personal computers, or \*screen\* phones to create grocery lists and enter orders from the convenience of their own kitchens...

**11/3,K/51 (Item 4 from file: 621)**  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2003 The Gale Group. All rts. reserv.

01724625 Supplier Number: 53067164 (USE FORMAT 7 FOR FULLTEXT)  
**Symbol Wireless Network Spectrum 24 Improves Tracking and Tracing of Sweden Post Packages.**  
Business Wire, p1331  
Oct 8, 1998  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 413

... terminal, a non-contact laser scanner equipped with a 16-bit DOS computer, keyboard and \*screen\*. Using VT-emulation, the \*wireless\* \*unit\* transmits \*bar\*-\*coded\* information over the Spectrum24 network, ensuring high data security and fast response times. Hundreds of...

**11/3,K/52 (Item 5 from file: 621)**  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2003 The Gale Group. All rts. reserv.

01378595 Supplier Number: 46368950 (USE FORMAT 7 FOR FULLTEXT)  
**DATCOL UPGRADES BARCODE SCANNER OPTICS FOR INCREASED READABILITY IN DIRECT SUNLIGHT**  
News Release, pN/A  
May 7, 1996  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 377

(USE FORMAT 7 FOR FULLTEXT)  
TEXT:  
...transcription of historical logs. DATCOL's field logsheets are designed and constructed complete with help \*screens\* and \*code\* libraries for each parameter to be logged. High quality customized barcode charts are produced via...

**11/3,K/53 (Item 6 from file: 621)**  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2003 The Gale Group. All rts. reserv.

01302713 Supplier Number: 45792887 (USE FORMAT 7 FOR FULLTEXT)  
**Telular Canada signs intent for major healthcare development and manufacturing contract.**  
Business Wire, p9181354  
Sept 18, 1995  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 452

... supports handheld wireless communicators. Its core product line, the VideoPad family of products, are touch-\*screen\* handheld \*wireless\* communications \*devices\* which meld computer and telecommunications technologies, with emphasis on user friendliness and individual RF data...

**11/3,K/54 (Item 7 from file: 621)**  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2003 The Gale Group. All rts. reserv.

01302703 Supplier Number: 45792874 (USE FORMAT 7 FOR FULLTEXT)

STATE OF THE ART announces the new Bar Code Master module for M.A.S 90 EVOLUTION/2; yet another time-saving, money-saving module joins the M.A.S 90 product line.

Business Wire, p9181231

Sept 18, 1995

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 540

... solution with the M.A.S. 90 Bar Code Master module. The PISON Alpha POS \*Handheld\* \*Computer\*, available from \*Scanco\*, provides on-\*screen\* prompts to guide the user through the \*scanning\* process.

End-users may purchase the Bar Code Master module directly from their Authorized Reseller...

11/3,K/55 (Item 8 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2003 The Gale Group. All rts. reserv.

01295377 Supplier Number: 45586794 (USE FORMAT 7 FOR FULLTEXT)  
**NORAND CORPORATION DOUBLES ITS PEN KEY FAMILY WITH TWO NEW GRAPHICALLY-BASED SYSTEMS**

News Release, pN/A  
June 5, 1995

Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 1163

(USE FORMAT 7 FOR FULLTEXT)  
TEXT:  
...Novell networks over Ethernet; wide area communications compatible with major service providers; integrated or tethered \*scanning\*; touch \*screen\*; infrared communications using IrDA compliant cableless links; and dial-up communications with an embedded 14...  
?

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Works Management

May, 2000

SECTION: Vol. 53, No. 5; Pg. 22-24; ISSN: 03744795

B&amp;H-ACC-NO: 54890648

DOC-REF-NO: WMG-2046-17

LENGTH: 930 words

HEADLINE: A farewell to wires

## HEADNOTE:

Wireless technology has the potential to transform almost all areas of business.

But, says Paddy Baker, be sure it performs as you expect before you take the plunge

## ABSTRACT:

While the business communications market may be lagging a little behind the consumer market, there are a number of initiatives that promise to make information more mobile, by breaking the reliance on cables to transmit voice and data communications. Wireless application protocol (WAP) phones are one of the most visible manifestations of this new technology. WAP is a means of standardizing the way that mobile telephones and other wireless devices are used for Internet access. There are some drawbacks to accessing an enterprise resource planning system over a mobile phone. Phone keypads and screens are small; WAP developers need to strike a balance between keeping menus simple so that each user can find the information they need in as few keystrokes as possible, and providing a set of menus that will suit a large number of users, to keep implementation costs down. WAP will not be confined to mobile phones: pagers, personal digital assistants, radio data terminals and other handheld devices can all be equipped to use it.

## BODY:

You could be forgiven for thinking that information and communication technologies are being developed mainly to satisfy our personal whims, rather than make our businesses more productive. Just as it's new games software that drives the development of ever faster PC chips, Internet phone services are mainly being promoted at the moment so that football fans can receive the latest scores, or investors can be notified of share price movements.

But while the business communications market may be lagging a little behind the consumer market, there are a number of initiatives that promise to make information more mobile, by breaking the reliance on cables to transmit voice and data communications.

WAP phones are one of the most visible manifestations of this new technology. WAP (Wireless Application Protocol) is a means of standardising the way that

## Works Management May, 2000

mobile telephones and other wireless devices are used for Internet access. Different manufacturers have used different technologies in the past, but WAP-enabled devices can be temperate. The first WAP-enabled mobile phone, the Nokia 7110, is available in the UK, and an Ericsson WAP phone will be available soon.

ERP software company Intentia has integrated WAP technology into its Movex ERP system (right). This means that mobile workers can access real-time back-office data via a WAP phone - with the obvious benefits that accrue from being able to see current stock levels, order status and so forth away from base. "We can offer online, real time WAP access today," says Linus Parker, UK managing director of Intentia. "It opens up a new mobile era for enterprise applications." The system is currently in beta-test in Scandinavia, and will be made available to existing Movex users this summer.

So who will use ERP on a WAP phone? Intentia is concentrating its efforts initially on field service personnel. "They will be able to use mobile devices to communicate information such as status and service requirements, order spare parts and update costs on the assignment," says Parker. "Movex WAP reads and updates the Movex database in real time."

Field sales will also benefit from a WAP capability, says Parker: "Sales teams will be able to check stock levels, undertake product configurations and order processing - all in real time. In finance there will be the opportunity to check the status of debtor days and cash flow."

Conceptually, this isn't greatly different from remote access via a laptop, but, adds Brian Davies, vice-president, northwest Europe for ebusiness solutions provider Scala: "Everyone's got a mobile, but not everyone has a laptop. PCs need to be booted up, modems can be complicated to set up, and using the mobile as a modem is slow. A WAP phone is quicker." And, as Scala's website points out, there are now more mobile phones in the world than PCs with an Internet connection. Intentia's Linus Parker says that the extra cost of adding WAP capability to an ERP system is fairly small compared with the cost of the system - "not the same order of cost as an additional ERP licence for each user."

There are some drawbacks to accessing an ERP system over a mobile phone. Phone keypads and screens are small; WAP developers need to strike a balance between keeping menus simple so that each user can find the information they need in as few keystrokes as possible, and providing a set of menus that will suit a large number of users, to keep implementation costs down. Also, as anyone who uses a mobile phone to send text messages will know, because three different letters are assigned to each key on the keypad, multiple keystrokes are often required to type single characters. One way to address this in the future will be software which suggests possible text strings from the first few characters - similar to how some desktop web browsers attempt to complete web addresses as you type.

But WAP won't be confined to mobile phones: pagers, personal digital assistants (PDAs), radio data terminals and other handheld devices can all be equipped to use the technology. And their potential uses could revolutionise the way businesses are organised. "If the central control system can be accessed from anywhere, then operations that have had to be centralised for control purposes can be decentralised," posits Ian Russell, MD of barcoding, labelling and wireless data capture company Codeway. So, he says, makers of seasonal

## Works Management May, 2000

products could move some production or storage to temporary premises and retain full control over it.

GRAPHIC: IMAGE PHOTOGRAPH Russell sees tracking of goods in the supply chain as a key area. The next generation of autoID (automatic identification) devices, expected in the UK in the autumn, will combine mobile phone and barcode reader, he says. "A unit which could handle voice and data would certainly be useful for delivery drivers. And a WAP enabled device could link to, and update, the supplier's, customer's and carrier's systems." ERP systems can also be extended on to wireless technologies other than WAP. Automotive components manufacturer Delphi and plastic bottle maker Schmalbach-Lubeca are using Teklogix's TekRF system to extend SAP R/3 onto mobile data terminals. As with WAP, the screen display is different from what the PC user would see. Mike Marsh, a director of Teklogix, comments: "Screens can be designed to minimise keystroke entry and the use of supportive input technologies like barcode scanners, RFID tag readers, or voice based commands can be used to maximise the worker's productivity. In many environments you must consider that the workers are wearing gloves or need their hands free for safety and productivity reasons and this is where wearable solutions can be a good fit too." Headset and belt-mounted voice systems have been shown to make order picking 30 per cent more efficient. The user receives 'spoken' instructions of picking locations and quantities, and speaks into a microphone to update the system. "The speech recognition technology is of a different type to that used in word processing applications," explains Codeway's Ian Russell. "They're about 98 per cent accurate, but for the other two per cent it asks you to repeat what you said - it doesn't misinterpret you." Despite the potential that wireless technology offers, it's unlikely that all the applications discussed here will take off. Like the voice-driven warehouse systems, it's the ones that offer a cost-- justifiable benefit that will last the distance. So that has to remain the acid test: while the theoretical advantages may be easy to see, ensure that the current state of the technology really can deliver them before parting with your cash.; IMAGE TABLE, More details; IMAGE PHOTOGRAPH

## SIDEBAR:

It's unlikely that WAP will replace communications infrastructures within factories, for the time being at least. But other wireless onsite communications technology for the factory is developing rapidly.

For example, DECT (Digitally Enhanced Cordless Telecommunication) phones can be used to keep in touch on large sites. The DECT phone acts as a portable extension to the internal telephone, and external calls can also be made via the PABX. Although DECT uses advanced technology it can integrate with a PABX several years old.

Another up and coming technology is the Bluetooth concept. The technology makes it possible to connect any portable and stationary communication device as easily as switching on a light. Any device equipped with a Bluetooth radio establishes instant connection to another Bluetooth radio as soon as it comes into range. The range of each radio is approximately 10m, but an optional amplifier will extend the range to 100m.

If this wireless technology succeeds, it could revolutionise the way on-site communication systems integrate, and open the door to design innovations.

Works Management May, 2000

Source: Blick

LOAD-DATE: June 27, 2000

LEVEL 1 - 4 OF 75 STORIES

Copyright 2000 The Morning Call, Inc.  
Morning Call (Allentown, PA)

February 11, 2000, Friday, EIGHTH EDITION

SECTION: NATIONAL, Pg. A1

LENGTH: 1284 words

HEADLINE: CHECK IT OUT -- YOURSELF;  
WEIS MARKETS EXPANDS SELF-SCANNING PRESENCE IN THE LEHIGH VALLEY.

BYLINE: DIANE STONEBACK; The Morning Call

BODY:

Bottlenecks at checkout are food shoppers' leading gripe. But for people who favor ATMs and pay at the gas pump, there's an alternative to grocery gridlock.

With its newly opened store in Macungie, Weis Markets became the second supermarket chain in the Lehigh Valley to join a national trend to let shoppers scan their own groceries at ACMs, automated checkout machines.

Weis stores in Lewisburg, Union County, and Baltimore, Md., also offer self-scanning, as do the Super Fresh stores in Lower Saucon and Lansdale.

At least until the new technology becomes the checkout of choice or necessity, the self-scan route could be the best shortcut to the stores' exit doors.

Next in line to try the technology will be customers in the Weis Markets in Schnecksville, where the system will be installed in March.

"We're giving our customers another choice at checkout, just like we give them all kinds of choices all over the stores. Now they can decide between a conventional checkout station manned by a cashier or go through the ACM," just as they decide between different brands and different sizes. "It's another choice," said Randy Kotzmann, regional supervisor for the area Weis Markets.

The United Food and Commercial Workers union believes self-scanning systems eventually will cost jobs.

"The store's going to be the big winner in the end," said Wendell Young IV, representative of union local 1776 in Plymouth Meeting. "The customer and the community are the big losers. Here's another job that's going to be eroded from our community. I guess if you're a stockholder you're happy about this. If you're a consumer, there's nothing to be happy about."

Young noted that Weis, and other non-union shops that have implemented self-scanning systems, invite customers to scan and sometimes bag their own groceries without offering them a savings on their bills.

"Initially, the hook will be, if you want to get out of here faster and you don't mind bagging your own stuff, go on," Young said. "It's a lot cheaper to have customers do it themselves than hire people to do it."

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Using the ACMs is the newest challenge in an automated world. But it's no big deal, according to shoppers in Macungie who treated their maiden voyages through the system's three stations like a new adventure in a toy store.

"This is great. No line. No wait," said Debrah Gomez, making a quick Valentine's Day candy stop at the store with Beth Witte, a fellow teacher at Eyer Middle School.

To use the system, customers first flash their shoppers club cards in front of the scanner or press the computer screen's START button. Then, they run their product's bar code past the scanner, which reads the code and announces the item's price, in a female voice.

There's also one screen listing the most popular purchases in the grocery store. If the fruit, vegetable or other item isn't pictured on that first screen, customers can get more pictures by pressing the alphabet letters on the bottom of the screen. They also can use the screen's keypad to press in the label's scanner code.

Once all purchases have been scanned, the computer prints a slip the shopper gives to the self-scanning section's cashiers, who deduct any coupons and collect payments.

The chance to check out faster wasn't the only reason given by shoppers testing the system in Macungie.

Suzanne Meitzler, a Lower Macungie Township resident, said, "I didn't want this store, let alone any new technology to learn." But the former English teacher confessed: "Now I'm hooked. When I scan my own groceries, I can check to make sure the prices ring up properly. I also get to bag the groceries the way I want them, like frozen food with frozen food."

What if a first-timer hits a snag? "It's easy. If you have a problem, store employees are there to help you through it," said Janice Helm, Macungie, who was using the system for the second time.

Children, who've practically teethed on computer keyboards, sometimes coach their parents. 'They really like the system,' according to Kotzmann.

Martha Herring of Alburtis, in fact, was coaxed to go to a self-scanning station the first time by her 12-year-old daughter, Stephanie. "She said, 'Mom, we've gotta try that.'" Herring gave in and has used it on three more trips since the store opened in late January. "I think it is quicker and I get to do the checkout process at my speed so I can see and know what is going on. Sometimes cashiers go so fast that it is impossible to keep an eye on everything."

Lori Knauss, a Weis employee who trains cashiers and customers, added: "It's a boon for moms with small children, too. A child can help his mom unload the cart and scan the groceries rather than running down Aisle 9 while mom waits in the checkout line.

"About eight out of 10 customers have tried the new self-scanning system," according to Knauss. She said: "I'll offer to help people who are waiting in a regular checkout line and they usually take me up on it. Customers of all ages

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have tested it and some have gotten very good at it. I've even teased one 85-year-old lady that she could be our next trainer."

At Super Fresh in Lower Saucon, where self-scanning has been offered since the store opened a little over a year ago, Cindy Meyers reported: "About 25 to 30 percent of our customers are using it. It is great for the do-it-yourselfers. I've seen people with big orders, as well as small orders, use it."

One Macungie shopper joked, "I don't like the female voice."

Bob Gillette, who lives close to the Macungie store and identified himself as "a guy who just wants to get in and out of here as fast as I can," had a complaint that won't be easy to remedy. "New technology is nice. The trouble is that you still have to pay for the food."

The system doesn't eliminate all labor costs. Kotzmann explained there are two cashiers dedicated to the three self-scanning stations in the Macungie supermarket. Often, there's a third person, too, so that any of the three can step in and help shoppers in distress.

Todd Hultquist, spokesman for the Food Marketing Institute in Washington, D.C., said, "Self-scanning is a hot topic, but it is not going to replace cashiers, at least in this century. There will be plenty of cashiers because personal service still is very important to shoppers."

But Young said self-scanners represent another attempt by supermarkets to get away from customer service. He noted that stores have been relying more on vendors to do the shelf stocking and meat cutting that traditionally has been done by employees.

Self-scanners, he cautioned, will eliminate the need for cashiers.

"As this thing catches on, the stores aren't going to stand these people in the aisles twiddling their thumbs," Young said.

According to Hultquist, self-scanning technology has been in development stages for about 10 years. He said: 'For the last three, chains have used some self-scanning on a trial basis. But now, we're seeing more and more stores that are making it permanent.

"According to FMI's 1999 survey, 8 percent of the country's supermarkets were either already trying or planning to install the equipment in some of their stores. The Southeast, where competition is really heated, is where the systems are the most popular."

He added: "Any system that can help get customers through checkout lines is going to be used. It's a way to help the express line shoppers -- the ones who use the baskets rather than carts -- get in and out of the store before they become basket cases. Express-line rage, like road rage, has become an issue."

Staff writer Christine Schiavo contributed to this story.

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GRAPHIC: 2 PHOTOS by CHUCK ZOVKO, The Morning Call CAPTION: A screen with images of produce and other items at the self-service checkout of Weis Markets in Macungie. CAPTION: Beth Witte (left), and Debrah Gomez scan packs of candy at the Weis Market in Macungie as they use the self-service checkout Thursday.

LOAD-DATE: March 10, 2000

LEVEL 1 - 6 OF 75 STORIES

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America's Network

February 1, 2000

SECTION: No. 2, Vol. 104; Pg. 10 ; ISSN: 1075-5292

IAC-ACC-NO: 59736284

LENGTH: 457 words

HEADLINE: Freezer to shopping list: 'Order more Haagen-Daas!'; Company Business and Marketing

BYLINE: Levine, Shira

BODY:

In a few short years, the average American won't need to interrupt his Web-surfing to get a snack. That was the future attendees saw at last month's Consumer Electronics Show in Las Vegas.

Sun Microsystems ([www.sun.com](http://www.sun.com)) announced that it would collaborate with home appliance manufacturer Whirlpool Corp. ([www.whirlpoolcorp.com](http://www.whirlpoolcorp.com)) to develop networked home solutions. The two companies demonstrated a prototype of an Internet-connected refrigerator, the first in series of networked products that Whirlpool has under development.

The Whirlpool partnership is just one step in Sun's initiative to bring Java into every conceivable aspect of life. Sun, GTE ([www.gte.com](http://www.gte.com)) and Cisco Systems ([www.cisco.com](http://www.cisco.com)) have agreed to collaborate on an initiative called the "Connected Family," which will develop Internet-enabled products and services for the home, using DSL technology from GTE, Sun's Java and Jini technologies, as well as Cisco's Internet Home Gateway technology.

Here are a few of the gee-whiz gizmos that the alliance envisions:

\* Calendar and list management via a flat-panel display, using interactive voice response or a bar code reader;

\* Remote home system management; and

\* Kitchen appliances that allow you to download recipes from a Website, insert the ingredients into a shopping list and then order the products from an online grocer.

By this quarter, Sun, GTE and Cisco will be soliciting comments and feedback from appliance, consumer electronics, office product and wireless manufacturers, as well as solution and content providers. The alliance plans to conduct field trials this summer.

Microsoft is also charging into the home networking fray. At his keynote address, Microsoft CEO Bill Gates predicted a world where a homeowner could

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set preferences for his home - much like he sets preferences for his PC - and program his home to adjust the lighting, lower the shades and turn on the television as he walks into a room.

"Even things like the washing machine, when it's done with a task, will be able to send a notification across the AC power and show up on [a screen]," Gates predicted. "Any of the speakers in the house will in the future have digital wireless connections, so any music you select you can take that little screen device, select what you want, know where you are, and that music will arrive. So the home itself will be almost like a computer system, and making it easy to know what's going on and easy to control that is a great software problem."

In fact, Gates said, he already lives in one of those futuristic homes, and it's "a lot of fun." For now, however, the rest of us will have to turn our lights on and off the old-fashioned way - with The Clapper.

IAC-CREATE-DATE: March 7, 2000

LOAD-DATE: March 08, 2000

LEVEL 1 - 7 OF 75 STORIES

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Logistics Management & Distribution Report

January 31, 2000

SECTION: LOGISTICS TECH; New Technology; Pg. 75

LENGTH: 170 words

HEADLINE: Symbol Launches Line of WinCE Mobile Computers

BYLINE: Staff

BODY:

Symbol Technologies has unveiled three new mobile computers that use the Microsoft Windows CE operating system. The three handheld computers--Models PPT 2700, PDT 7200, and PDT 7500--are designed for use in such fields as logistics, transportation, and retail.

Weighing less than 12 ounces, the PPT 2700 allows users to communicate in real time over Symbol's "Spectrum 24" wireless local-area network (LAN). In addition, the unit enables users to manage schedules, personal information, contacts, and e-mail.

Symbol's PDT 7200 offers voice-paging capabilities, touch-screen control, and one- and two-dimensional bar-code scanning. Using Symbol's Spectrum 24 wireless LAN infrastructure, the terminal allows users to receive pages.

Its third new unit--the PDT 7500--is a lightweight hand-held terminal with advanced bar-code scanning, data processing, and communication features. The device offers the latest mini-scan engine technology for reading linear and 2-D bar codes.

LOAD-DATE: February 15, 2000

LEVEL 1 - 12 OF 75 STORIES

Copyright 1999 The Morning Call, Inc.  
Morning Call (Allentown, PA)

November 21, 1999, Sunday, SECOND EDITION

SECTION: NATIONAL, Pg. A1

LENGTH: 3129 words

HEADLINE: CHANGING FACE OF TECHNOLOGY

BYLINE: KATIE WANG; The Morning Call

DATELINE: PALO ALTO, CALIF.

BODY:

It is a land of gold, where dreams are digital, money is plentiful and dotcom is a way of life.

Millionaires abound, money talks and gridlock traffic, a daily yet accepted nuisance, crawls slowly every day along the threads of freeways that stitch San Francisco to San Jose.

Nestled between the two cities is a treasure chest of high-tech companies in homogeneous glass offices set against naked, sun-baked mountains.

The company names are familiar: Intel, Cisco Systems, Apple Computers, Lucent Technologies, Hewlett-Packard. And every day, new, unfamiliar start-up enterprises join the veteran giants of this 50-mile stretch known as Silicon Valley, the epicenter of the technological world.

The region, once dotted with prune and apricot trees, is the heart of the transistor and microprocessor industries, devices that have made people's lives move faster and easier in the 20th century.

During the 1980s, a decade where Americans shifted toward the Reagan right, greed and yuppies raged and corporations downsized, microprocessors spurred a technological surge that produced wonders such as the fax machine, voice mail and videocassette recorder.

The sleek compact disc, with a smoother, digital sound, replaced muffled audio cassettes. Cellular phones provided convenience and accessibility to a society always on the go.

Atari, a Silicon Valley-based company, sold tens of millions of colorful video games for home, creating a generation labeled "X" with an appetite for fast, flashy entertainment.

The defining moment of the technology boom occurred in 1984, when Apple Computers, a Silicon Valley company, introduced the Macintosh personal computer.

Life hasn't been the same since.

The user-friendly Macintosh connected people to computers in a way they had never been linked before.

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Instead of using complicated programming language, people could use a palm-size tool called a mouse and click on desktop images on their monitor.

Americans were transported into a world of spreadsheets, word processing and computer games. The personal computer revolutionized the workplace, creating new skills for employees to master, but making it easier for them to perform daily tasks.

Budget reports, address lists and memos could be typed, saved to a disc and faxed to another office thousands of miles away.

E-mail provided a new means to keep in touch, replacing phone calls and handwritten letters for some.

But there was a price to pay. The accelerated pace made the workplace and society more stressful, cutting into family time, said Keith Gardiner, a Lehigh University professor.

While technology blossomed, the 1980s was also the decade America witnessed its worst space disaster, when the space shuttle Challenger exploded into a fireball, killing all seven people aboard.

It was a somber reminder that even with all the technological advances, man was not invincible.

Still, Americans churned ahead, embracing as many new gadgets as they could. Technology's magic touched everything from entertainment, with hit movies such as "Back to the Future," to the medical world, where the first artificial heart transplant took place.

At the center of the boom is Silicon Valley, a hotbed for tech companies. The region, with its fusion of brains, money and energy, set the benchmark for technological growth in one area.

Other places, including the Lehigh Valley, have tried to emulate its success.

Today, Silicon Valley is a destination point for ebullient, fresh-faced entrepreneurs who arrive with an Internet start-up plan in one hand and a Palm Pilot in the other.

A 1980s spirit of greed prevails in this area where people ask when you will make your first million, not if. Transiency is accepted, if not encouraged, as people such as John Lilly, a 28-year-old former Apple employee, break away from their companies to start their own.

Lilly is one of the lucky ones. His company, Reactivity, a consulting firm that spins out start-ups, is up and running in less than two years since its conception.

Chances are, though, that most start-ups will not succeed because of intense competition. But failure is hardly a blemish in the valley of opportunity, where 19,400 jobs were added in 1998.

Nearly every day, a new company shapes the landscape, drawing more people to the area, outpacing residential development and making the valley one of the

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most expensive places to live.

"We're in the richest county in the richest state in the richest country of the world," said Tod Browndorf, chief operating officer of Pacific NetSoft, a Silicon Valley head-hunting firm. "If you want to be part of the way the world turns, this is where you need to be."

#### ALL WIRED

TOGETHER, PORTOLA VALLEY residents Kaiti Malloy and her husband, Scot, own three lap top computers, a personal computer, a fax machine, two cell phones that also double as pagers, a digital satellite dish and a portable MP3 player.

Kaiti plans on purchasing a Palm Pilot, a hand-held computerized version of a daily planner, and Scot, a Bethlehem native, is going to trade his cell phone for one with a PDA, or Personal Digital Assistant, the equivalent of a personal computer on a telephone.

Their home, as wired as an electronics store, is typical in Silicon Valley. It's filled with enough gadgets to guarantee they will never lose touch with the world.

"With the exception of when I'm on vacation, I feel lost without at least one PC and Internet access," said Scot Malloy, who works at Reactivity.

Tiny gadgets are what make the valley spin. Drivers chat on cell phones while zipping along freeways in their daily commute. A trip to Fryes Electronics, a technology superstore, is a family outing. It would be rare to find someone without a cell phone, pager or Palm Pilot.

"When people work in the industry that produces the technology, they're much more likely to have that technology," said June A. English-Lucek, an anthropology professor at San Jose State University.

But the gadgets have created a frenetic society. "There's more pressure to deliver, there's more deadlines," said Gardiner, who only recently purchased an answering machine.

The pressure could grow as technology becomes smarter and more sophisticated.

General Motors has announced it will equip cars with voice-activated Internet access, which could connect drivers to e-mail even behind the wheel.

In San Francisco, some taxis are furnished with a lap top computer so passengers can surf the Web while stuck in traffic.

Browndorf, of Pacific NetSoft, spends at least six hours a day connected to some sort of electronic device. Relatively speaking, he is barely wired, but has the basics -- cell phone and personal computer.

"I hate the feeling that someone wants to inform me of something and I can't be reached," he said.

Even with all their gadgets, the Malloys say they aren't nearly as wired as some of their friends who also own digital cameras, scanners and multiple

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personal computers.

The couple uses the personal computer to bank, pay bills, shop and send e-mail. This year, Scot Malloy, 34, plans to purchase all of his Christmas gifts online.

His latest techno gadget is the "Diamond Rio," a portable MP3 player, a personal music player that is smaller than a cigarette pack and plays sound files from computers.

The fax machine, once considered revolutionary, gets the least use.

"Usually it's only needed when dealing with old, established and somewhat out-of-date companies that haven't discovered e-mail yet," he said.

#### BUILDING BLOCKS

The one-car garage sits 10 feet behind a brown-shingled Palo Alto house, sectioned off by a chain and a tiny sign warning people to "Keep Out."

In the front yard is an inconspicuous plaque, marking the garage as the birthplace of Silicon Valley. The garage, where Bill Hewlett and Dave Packard started their computer company, is symbolic -- a testimony that great things can grow out of small places.

It is an entrepreneurial spirit that generations of Silicon Valley technology companies have adopted since Hewlett-Packard formed in 1938 -- each company building upon each others' innovations. These building blocks paved the way for the personal computer revolution.

"HP has always been innovation-oriented and organized in small work groups that are fast and flexible like start-up companies," said John Young, Hewlett-Packard's chief executive officer from 1979 to 1992.

Despite the plaque at the garage, Hewlett-Packard never worked with silicon in the 1930s, the material used in most semiconductors, but the garage is the model for so many entrepreneurs.

Unused, it is a draw for gawking tourists who visit daily. A management company owns and rents out the house. The last set of renters moved out because tourists barraged them from dusk until dawn.

Palo Alto also is considered the heart of Silicon Valley, because it is home to Stanford University, which feeds hundreds of graduates to the tech world annually. Hewlett and Packard are two of the school's most famous alumnae.

The university also was a reason why so many tech companies moved to the region during the '50s and '60s.

In 1968, Gordon Moore and Robert Noyce launched a business called Intel. The company carved computer chips out of silicon, a grainy, sandy material that, next to oxygen, is the most abundant element on earth.

Intel designed the microprocessor, a complex chip that could perform 60,000 calculations in one second, in 1971. By the end of that decade, engineers were

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able to squeeze more transistors, a tiny switch that is almost invisible, on a chip. These transistors make microprocessors operate faster and more efficiently.

#### THE BOOM

Jamis MacNiven, a boisterous, animated contractor was working on a renovation job in 1980 at a two-story house in Los Gatos.

MacNiven asked the homeowner what he did for a living.

"I own a computer company," the man replied.

"What's that? MacNiven asked. "Punch cards or something?"

The homeowner was Steve Jobs, a 25-year-old, bespectacled computer geek who started tinkering with computers, also in his garage, in the 1970s.

The company was a burgeoning enterprise called Apple Computers. During the 1980s, it topped the personal computer industry, tumbled, and is now trying to stage a comeback.

Today, Jobs and MacNiven are both entrenched in the Silicon Valley scene -Jobs by choice, MacNiven by circumstance.

MacNiven owns Buck's, a popular Woodside family-style restaurant where venture capitalists strike million-dollar deals over breakfast burritos and silver dollar pancakes. The restaurant is a watering hole for entrepreneurs.

Jobs is back in charge of Apple, after being ousted in 1985. Apple recently introduced a colorful new line of personal computers called the iMac, a long way from the primitive single-board computers that the company first built.

The legendary garage where Jobs and Steve Wozniak, a former Hewlett-Packard employee, started their company in 1976, sits unmarked on Crist Lane in Los Altos. But like the Hewlett Packard garage, it is a magnet for tourists.

Jobs "is an authentic genius," MacNiven said, sitting in his restaurant before the dinner rush. "He really did good."

The story of how Apple began is well documented. Jobs and Wozniak started with pocket change and an order to manufacture 50 single-board computers at \$ 500 apiece.

Around this time, in 1981, IBM introduced its personal computer using Microsoft's MS-DOS operating system. The company formed a partnership with Bill Gates, who like Jobs, was trying to make his mark in the computer world.

Apple released three computers before unveiling the Lisa computer in 1983, the first commercially sold computer with a graphical user interface.

The Lisa computer was unique because of its icons and pop-up menus, making it easier for people to use, but it flopped because it cost an unaffordable \$ 10,000.

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The company was looking to rebound. Coincidentally, Jobs was invited by managers at Xerox to visit the company's premier research center, called Xerox Palo Alto Research Center. The center is the birthplace of the laser printer and the first work station, the Alto. Xerox never sold the Alto commercially.

Legend has it that Jobs conceived the idea for the Macintosh after seeing the Alto. Xerox officials had invited Jobs there because it was interested in investing in promising small companies.

Jobs asked to see the computer science laboratory, but Xerox PARC researchers objected out of fear of giving away trade secrets. Corporate managers in New York ordered the employees to allow Jobs in.

"It was a stupid thing to do -- I couldn't believe it happened," said Bob Taylor, director of the computer science division at that time. As fate would have it, Taylor was out of town the day Jobs visited. Otherwise, he said, he would've refused to let the Apple CEO in.

The Mac made its debut in grand fashion as a Super Bowl commercial, single-handedly igniting the personal computer revolution. The spot played off George Orwell's "1984" and featured the destruction of Big Brother with the Mac.

That year, at least half a million units sold at \$ 2,500 each. The Mac was the first computer to put text and graphics on the same page. Today, the iMac costs \$ 999.

Office dynamics changed. The service sector -- people who typed letters and compiled budget reports -- were no longer in as high demand because the computer made it easier for middle management to handle those tasks.

"Ask any secretary what her work is like (compared to) the 1980s," English-Lucek said. "There was a massive shift in organizations about what happened at work."

People transformed their homes into offices to save on commute time, smudging the distinction between work and home. And as predicted, society became more reliant on computers.

At the end of the '80s, more than 45 million PCs were in use, more than double the 19 million in 1984.

In the shadows of the personal computer revolution, another major breakthrough in technology unfolded: the continual strengthening of the microprocessor.

The concept is simple -- increase the numbers of transistors on a silicon chip and the capabilities will multiply.

By 1989, Intel produced a chip that allowed users to run desktop publishing and color computing simultaneously at significant speed.

The microprocessor is still the driving force behind today's technology boom that is sweeping the nation faster than society can absorb it.

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It is the reason computers are getting smaller and flatter and equipment from the phone to the camera will continue to integrate.

"This is the engine that drives the advancement of everything you know today," said John Gage, chief scientist at Sun Microsystems. "We'll get to 2010 using what we do now, but it'll be 1,000 times smaller."

#### THE REVOLUTION

Today, billboards promoting Internet companies fan the eight-lane freeways that cut through the heart of Silicon Valley.

The entrepreneurial spirit set by Hewlett-Packard more than 60 years ago still drives the Valley like a furious engine, churning out more companies nearly every day.

But instead of starting in a garage, today's new tech company is likely to start on the Internet -- the tool driving the nation's economy.

"There's no place else on the planet where so many ideas can be turned into prototypes and working models, where you find expertise in everything you need to make a company," said Tim Lenoir, who teaches a class on Silicon Valley history at Stanford University.

Every day, at least hundreds of people will come up with the same great idea. The real test, though, is successfully packaging that idea before others do.

In 1997, John Lilly came up with the biggest idea he could think of -- a company to spin out other start-ups. The company creates, develops and consults start-ups on how to launch their business.

The Stanford alum called it Reactivity to symbolize the blend of intelligent, energetic employees he wanted to hire. Reactivity launched in 1998 with three people and \$ 30,000 in capital. By the end of that year its revenues reached \$ 1 million.

"Everybody seems to be starting up these days," he said. "No one wants to work in a large company."

Today, their Redwood City office, a converted bank, is a typical valley workplace. A colorful mesh basketball hoop is in one corner, diagonal from a shelf topped with Legos, a Curious George and other toys.

Across the room are Nerf guns and more toys to relieve stress and engender creativity.

Two miles down the road is the Buck's Restaurant, the hunting ground for entrepreneurs waiting to be discovered like actors in a Hollywood restaurant.

"People come in now every day and say, 'I've got this great Internet idea. I need \$ 20 million, do you know where I can get it,'" said MacNiven, the owner, who has heard nearly every offbeat idea.

Secluded from the flurry of activity is Bob Taylor, a mastermind of the ARPANET, the predecessor to the Internet, who predicted the Internet explosion

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30 years ago.

Taylor, who lives five miles from Bucks in a house overlooking Stanford University, is surprised it has taken this long to happen.

In the '60s, Taylor and J.C.R. Licklider, who is regarded as the father of the Internet, prophesied that "in a few years, men will be able to communicate more effectively through a machine than face."

The U.S. government developed ARPANET out of its agency, Advanced Research Projects Agency, which was the country's response to the Sputnik launch in 1957.

Taylor expects there is more to explore in cyberspace.

"I think it's clear today that the Internet is one of the most important innovations of this century," Taylor said.

Many more innovations are on the horizon.

Last week in Las Vegas, Bill Gates opened a technology trade show insisting in his keynote remarks that personal computers are here to stay. Gates outlined his vision for homes to have Web-connected flat-panel screens in every room. Samsung just released a Dick Tracy-like cellular phone that straps to the wrist like a watch and is voice operated.

And Frigidaire unveiled a refrigerator of the future with a touch-screen and bar-code scanner built into the door. People running low on an item will be able to scan the code, adding them to an electronic grocery list. The list would be zapped to an online grocer.

"The blur between life and different technologies is going to get blurrier and blurrier," English-Lucek said. "It is making it easier to play at work or to work at home because the technologies you have will allow you to do both of those."

Next month: the last leg.

GRAPHIC: PHOTO ILLUSTRATION by DOUGLAS BENEDICT, The Morning Call Photo illustration reflects subject of article 6 PHOTOS by DOUGLAS BENEDICT, The Morning Call CAPTION: Cisco Systems office buildings fill a Silicon Valley landscape overflowing with thousands of companies -- land once dotted with prune and apricot trees. CAPTION: Bob Taylor, who once ran the Xerox Palo Alto Research Center and helped build the earliest forms of the Internet, sits outside his Woodside, Calif., home, which overlooks Silicon Valley and Stanford University. CAPTION: Visitors file through a self-guided tour at the Intel Museum, learning how chips are made. CAPTION: Jeremy Hendrickson (right) enjoys watching Ashkay Rangnekar in a lighter moment at Reactivity, which helps companies build an online presence. CAPTION: At left, visitors look over Silicon Valley from the Hoover Tower at Stanford University. Stanford graduates have fueled the computer industry's success. Above, Lehigh University graduate Scot Malloy takes a break from his job at Reactivity. GRAPHIC by UNKNOWN (13 photos) CAPTION: Through the Years 1980 Republican Ronald Wilson Reagan, a former movie star, is elected president over Democrat Jimmy Carter. At 69, Reagan is the oldest elected president. John Lennon, musical icon and Beatle, is shot and killed outside his New York home. An unemployed amateur guitarist named David

Morning Call (Allentown, PA) November 21, 1999, Sunday,

Chapman is charged with his murder. The United States and 50 other nations boycott the Summer Olympics in Moscow to protest the Soviet invasion of Afghanistan. 1981 Fifty-two American hostages are freed from Iran after spending 444 days in captivity. President Reagan is shot by John W. Hinckley as he leaves the Washington Hilton Hotel. Reagan survives and is not severely wounded. His press secretary, Jim Brady, also is shot and paralyzed. Two suspended walkways collapse at Hyatt Regency Hotel in Kansas City, killing 111 people. AIDS is identified by French and American doctors as a disease spread by the exchange of bodily fluids through sexual contact, use of contaminated hypodermic needles or blood transfusions. Sandra Day O'Connor becomes the first woman named to the U.S. Supreme Court. 1982: Seven people die in Chicago after using a Tylenol pain reliever in capsules laced with cyanide. Jim Thorpe has Olympic gold medals restored posthumously. AT&T agrees to sell off two-thirds of its assets, ending a seven-year antitrust suit and bringing an end to the Bell monopoly. The Equal Rights Amendment is defeated after a 10-year struggle for ratification. Dr. Barney Clark becomes first person to get a permanent artificial heart. 1983 Martin Luther King Jr.'s birthday is declared a national holiday. A South Korean passenger jet infringing on Soviet air space is shot down; 269 people are killed. 241 U.S. Marines and sailors on multi-national peacekeeping force are killed in Beirut, Lebanon, by truck bomb terrorist. Sally Ride takes a trip on the shuttle Challenger, becoming the first American woman to travel to space. 1984: Geraldine Ferraro, a congresswoman from New York, is chosen as the Democratic nominee for vice president, becoming the first woman in American history to be listed on a major party ticket. Ronald Reagan and Vice President George Bush are re-elected. Vietnam War veterans reach an out-of-court settlement with seven chemical companies in a class-action suit over the herbicide Agent Orange. 1985: Arab terrorists hijack a T.W.A. flight, holding passengers for 17 days. Thirty-nine Americans are on board. Ronald Reagan and Russian leader Mikhail Gorbachev meet in Geneva, Switzerland, for a summit. Homelessness is its worse since the Depression, with estimates of 350,000 to 3 million homeless in the United States. Pete Rose of the Cincinnati Reds breaks Ty Cobb's 57-year hitting record with his 4,192 hit. 1986: Space shuttle Challenger explodes 73 seconds after liftoff, killing all seven astronauts aboard. Among the dead are Christa McAuliffe, who was supposed to be the first schoolteacher in space. United States bombs Tripoli, Libya, in retaliation for Libya's role in a bombing of a discotheque that was popular with American servicemen. Reagan administration confirms it has been sending Iran weapons to win the release of American hostages and profits diverted to help Nicaraguan Contras. The Iran Contra affair would overshadow the Reagan administration and eventually lead to Lt. Col. Oliver North's conviction for destroying and falsifying documents. National debt passes the \$ 2 trillion mark. 1987: Stock market plunges 508 points, earning the distinction of Black Monday and sending stockholders into a panic. The United States and Soviet Union formally agree to the first comprehensive arms control treaty in the nuclear age. Evangelist Jim Bakker, mired in sex and money scandals, is stripped of his ordination by the governing board of the Assemblies of God. Andy Warhol, guru of the Pop Art movement, dies. 1988: Republican George Herbert Walker Bush is elected president, defeating Democratic Gov. Michael Dukakis of Massachusetts. In the spirit of Glastnost, Ronald Reagan visits the Soviet Union, the place he once called the "Evil Empire." Federal grand juries in Miami and Tampa return indictments against Panamanian ruler Manuel Noriega, charging he had protected the Medellin drug cartel. A missile fired from the U.S. Navy warship Vincennes in the Persian Gulf destroys a commercial Iranian airliner, killing all 290 persons on the plane. The airline was mistaken for an Iranian F-14 jet fighter. The film "Last Temptation of Christ" is released, sparking protests across the nation.

Morning Call (Allentown, PA) November 21, 1999, Sunday,

Critics called the movie a blasphemous portrayal of Christ's life. 1989: Earthquake rocks the San Francisco area, damaging the Bay Bridge and killing more than 62 people. The quake measured 6.9 on the Richter scale. U.S. Supreme Court rules burning the American flag is "expressive conduct" and is a constitutionally protected form of free speech. Hurricane Hugo rips through Georgia and the Carolinas with 135-mph winds, killing at least 25 people and leaving 100,000 homeless. United States invades Panama to overthrow dictator Manuel Noriega. Berlin Wall falls Nov. 9, marking the end of East Germany and the Cold War between U.S. and U.S.S.R. GRAPHIC by UNKNOWN (1 photo) Sources: "The Encyclopaedia of Fashion" by Georgina O'Hara; The Morning Call; "Facts on File-1985; "The New York Public Library Book of Chronologies." RESEARCH by DIANNE KNAUSS, The Morning Call CAPTION: LIVING IN THE 1980s Hottest Fashion The power suit was a popular look for women. Calvin Klein showed the double-breasted blazer and pants in his fall 1983 collection. Summer Fun Auto racing. Admission: adults \$ 7; children 6-11, \$ 3 "See more than 12 racing events in one evening of exciting family entertainment!" -- At The Great Nazareth Raceway, Nazareth. "Learn to Board Sail!" Six-hour course. Private lesson: \$ 80 -- At The Warming Hut Ski Shop at Nestor's, Whitehall Township. On the Road 1985 T-Bird. Electronic mirrors. Bucket seats. \$ 10,988. -- At Bethlehem Suburban Ford, Bethlehem 1985 Subaru GL station wagon. Air conditioning, power windows, power door locks. \$ 10,644. -- At Faulkner Oldsmobile Cadillac Subaru, Bethlehem 1985 Toyota cargo van. \$ 9,918 -- At Bennett Toyota, Allentown. Pocket Notes Food Butter: \$ 1.79/1-lb. package Peaches: 39 cents/lb. -- At Dan Schantz Farm Market, Allentown Large eggs: 69 cents/dozen At Valley Farm Market, Allentown King-size bread: 22-oz. loaf, 79 cents Buttered wheat bread: 22-oz. loaf, 89 cents -- At Food Lane Laneco Inc. throughout the Lehigh Valley Houses for Sale Five-bedroom home on N. 14th Street, Allentown. Modern kitchen, garage, yard. \$ 49,500. Six-room, two-story twin in North Catasauqua. Enclosed porch/patio, deep back yard with trees and shrubs, off-street parking. \$ 51,900 Clothing Girls' assorted shorts. \$ 2.99 to \$ 4.99 Boys' shorts, tank tops. \$ 3.99 -- At Orr's, Bethlehem and Phillipsburg Sportcoats, from \$ 55.95 Slacks, from \$ 15.95 Ties, from \$ 5.45 --At Kuppenheimer Men's Clothiers, Whitehall Township. Furniture/appliances Video cassette recorder, \$ 349. -- At Hess's, Allentown and suburban stores. Built-in dishwasher. \$ 278 --At Eastern Light, Allentown Four-piece bedroom suite. \$ 499. --At Levitz, Whitehall Township Top Songs Bruce Springsteen's "Born in the USA" Madonna's "Material Girl" Tina Turner's "We Don't Need Another Hero (Theme from "Thunderdome") At The Movies "Pale Rider" with Clint Eastwood -- At Budco Plaza at the Whitehall Mall and Budco Quakertown 5 in Quakertown. Tickets: \$ 2.50 for 1 p.m. showing. "Beverly Hills Cop" with Eddie Murphy -- At Shankweiler's Drive-in Theatre, Shnecksville. Tickets: adults, \$ 2.50; children under 13, free. What people were reading "The Color Purple" by Alice Walker "Beloved" by Toni Morrison "Iacocca: An Autobiography" by Lee Iacocca with William Novak "The Hunt for Red October" by Tom Clancy

LOAD-DATE: November 23, 1999

LEVEL 1 - 35 OF 75 STORIES

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ABC NEWS

SHOW: WORLD NEWS TONIGHT WITH PETER JENNINGS (6:30 pm ET)

NOVEMBER 12, 1998

Transcript # 98111206-j04

TYPE: PACKAGE

SECTION: NEWS

LENGTH: 540 words

HEADLINE: CUTTING EDGE

BYLINE: JACK SMITH, PETER JENNINGS

HIGHLIGHT:

INTERNET BARGAIN FINDER - BEST PRICES IN A POCKET

BODY:

THIS IS A RUSH TRANSCRIPT. THIS COPY MAY NOT BE IN ITS FINAL FORM AND MAY BE UPDATED.

PETER JENNINGS: There is no ignoring momentum -- which brings us to a piece of "Cutting Edge" technology tonight that is impossible to ignore. ABC's Jack Smith reports tonight on taking the Internet with you when you shop -- in a store.

JACK SMITH, ABC News: (voice-over) This is how we shop today. We hope we're getting the best price. But now, there's brand-new technology that uses the power of the Internet to automatically find the best price for us anywhere -- a concept that may revolutionize shopping.

JOE CARTER, Managing Partner, Andersen Consulting: This is the sort of thing that demonstrates how the Internet really changes the rules.

Just scan in the book.

JACK SMITH: (voice-over) The idea is to enter the bar code on merchandise into this specially equipped, experimental cell phone. It then automatically dials

WORLD NEWS TONIGHT WITH PETER JENNINGS, NOVEMBER 12, 1998

into the Internet and hunts for the same merchandise at a better price somewhere else.

LUCIEN HUGHES, Technology Director, Andersen Consulting: When we show this to retailers, you know, there's a collective drawing of breath.

JACK SMITH: (voice-over) The designers took us to a store to show us why.

(on camera) It's just like scanning something in the supermarket?

LUCIEN HUGHES: Exactly.

JACK SMITH: (voice-over) This prototype of Internet Bargain Finder, as it's called, discovered in seconds, that the book, which retails for \$27, sells elsewhere for as little as \$22.

(on camera) All of the book shops on here are selling it for less than the list price.

LUCIEN HUGHES: That's right, and that's the point of the Pocket Bargain Finder here. Because you know where the cash register is now? It's here. It's not really over there anymore. Because I'm making the sale here. I may buy here.

JACK SMITH: (voice-over) Anything with a bar code can be compared this way. And the more retailers go online, the more there is for consumers to compare, and the more they gain the upper hand. Scientists think the device, which will eventually fit in your pocket, will turn shopping on its head.

JOE CARTER: Instead of the merchant saying, "Here's what I have to sell. Who wants to buy it?" It's going to be the consumer saying, "Here's what I want to buy. Who wants to sell it to me?"

JACK SMITH: (voice-over) But if that's a revolution, it's not one that makes retailers, especially small ones, happy.

BARBARA GEORGE, Printers Inc. Bookstore: It will drive us out of business. It will drive all the hardware -- the mom- and-pop hardware stores out of business, and I think it will just go on and on.

JACK SMITH: (voice-over) Maybe, but it will also benefit American consumers, a dramatic breakthrough that will use the growing power of the Internet to change what Americans do every day. Jack Smith, ABC News, Palo Alto, California.

PETER JENNINGS: Shopping through the Internet is increasingly available to Americans. Twenty-five percent of households now have access to the Net.

Coming up -- a reprieve for some giant redwoods.

(Commercial Break)

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LEVEL 1 - 6 OF 6 STORIES

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Nation's Business

December, 1994

SECTION: TRANSPORTATION; Pg. 60

LENGTH: 1862 words

HEADLINE: Tracking All Trucks

BYLINE: By Julie Candler

## HIGHLIGHT:

Many companies are outfitting their fleets with advanced mobile communications technology.

## BODY:

Chuck Farmer, a construction estimator, walked out of his Houston home one morning last year and discovered his company pickup truck had been stolen. The police got on the case -- and so did Farmer's company. DU-WEST Foundation Repair, in Pasadena, turned to a land-based radio tracking system that pinpoints the exact location of all 30 of the company's trucks, each of which emits a radio signal at all times.

A company dispatcher screened an area map on a computer and within 10 seconds determined the truck's location, which turned out to be a "chop shop," where vehicles are illegally cut up for salable parts. Farmer's truck and 10 other vehicles were recovered, and police arrested seven people accused of being members of a car-theft ring.

For DU-WEST, the incident was yet another example of how its mobile-communications system saves money and increases productivity. "Getting back the stolen truck, having better communication with drivers, and keeping better track of employees' hours more than pays for the system," says Jim Dutton, the company's general manager.

DU-WEST's system was devised by AirTouch Communications, in Walnut Creek, Calif. AirTouch, an offshoot of Pacific Telesis, is one of many companies offering a growing array of satellite, radio, and cellular communications services to increasingly receptive small businesses that use fleets of vehicles to move goods or to call on customers.

Mobile communications allows the Walgreen Co., for example, to keep track of its drivers' mileage, delivery stops, and payroll data. Galaxy Cablevision's technicians no longer have to flood their home office, in Sikeston, Mo., with calls throughout the day to get their next assignments. MidAmerica Dairymen, Inc., based in Springfield, Mo., can reach its drivers throughout the country and direct them to shipments to fill their otherwise empty trailers for the ride home.

"Use of mobile communications has exploded in the last two to three years, but it's nothing in comparison to what's going to happen," says William Bane, vice president of Mercer Management Consulting, a management and strategy consulting firm in New York City. In the next few years, he says, the Federal

Nation's Business, December, 1994

Communications Commission's awarding of more radio frequencies for mobile communications devices will increase competition and drive down prices.

The increasing use of mobile communications for companies with truck fleets was spurred by deregulation, according to Doug Anderson, director of technical services for the American Trucking Associations, based in Alexandria, Va. Deregulation created a more competitive market, he says, requiring carriers to be more responsive to consumer demands for just-in-time deliveries and fast service calls.

Most activity within the mobile-communications business appears to involve ever-improving cellular systems. They are progressing from relying on analog data, which replicates the human voice and other sounds, to digital data, which reduces all communications to a language that computers can use.

Digital data, considered the communications language of the future, is faster, more versatile, more accurate, and more dependable than analog data, and it is less susceptible to eavesdropping.

One of the more advanced cellular systems in use today was developed specifically for truckers and by truckers, and it operates on a national network formed through a special arrangement with U.S. and Canadian cellular carriers.

The system was created by Dallas-based HighwayMaster, and at its heart in each truck is a cellular telephone connected to software. The phone enables the computer in the truck to communicate with the main computer in the central office of the company operating the vehicle. Using an on-screen map, a dispatcher can call up the location of any of its trucks in a given region and determine its load status and estimated time of arrival.

HighwayMaster says its system provides seamless communication for both voice and data, meaning no delays when trucks move from one cellular-phone region to another. The system "works everywhere, on every cellular system," says Bill Saunders, president and chief operating officer of the three-year-old company.

A dispatcher can send written instructions to a mobile data terminal in the vehicle or talk with a driver almost anywhere the truck travels. The system's voice-recognition technology enables the driver to place a call without taking his eyes from the road or his hands from the wheel.

The system's costs per truck are \$ 1,795 for installation of the equipment and \$ 60 to \$ 80 a month to operate it.

"We tried the HighwayMaster system on five test units," says Dave Samford, director of sales and marketing for the transportation division of Mid-America Dairymen. "Now we have over 100 trucks installed and will have the rest soon."

Until HighwayMaster was installed, Samford explains, drivers for the big dairy cooperative -- which delivers products nationwide and also does "for-hire" work -- had to call in every morning to report their location, and the company was getting many calls from customers wanting to know where the drivers were..

"Now they don't have to pull off the road and go to truck stops to phone us. We know where they are," Samford says. In Massachusetts recently, he adds, "one of our team drivers had no return shipment immediately available, so we

Nation's Business, December, 1994

dispatched [the driver] to pick up a load 100 miles away. Ten minutes later, a customer called in with a shipment available at their Massachusetts location. We reached the driver and saved the cost of 100 deadhead miles."

The 111 delivery trucks of Walgreen, of Deerfield, Ill., are outfitted with a version of Ameritech's wireless data service; each truck has a bar-code scanner and a printer instead of a keyboard or a screen, and it also has a cellular phone.

The system's primary use, says Tom Stedman, director of corporate transportation at Walgreen, is through the scanner, attached to a computer installed between the driver's and passenger's seats in the truck and linked to the home office via cellular phone. It collects payroll information on drivers delivering to 2,000 stores in 34 states.

"It's a total paperless system," says Stedman. "We can call the truck any time and extract information. If we want to talk to the driver, we send him a message. He must pull over and put the gearshift in neutral before he can call us. We don't want the driver trying to shift with a telephone to his ear."

The system costs about \$ 5,000 per vehicle. Stedman says drivers now spend less time making deliveries, their runs are designed more efficiently, and they communicate better with the stores. Although he has no hard data on how the system has affected operations, he believes it has made the firm more competitive.

United Parcel Service, based in Atlanta, blends cellular and computer technology in an electronic clipboard. Every time the driver puts the clipboard in a slot in the truck, UPS receives data through a cellular link.

"MaxiTrac is the company's PC-based package tracking software," says spokesman Pat Steffen. "Small to medium-sized shippers with stand-alone PCs can put in their own software and access our network to track delivery of their own UPS packages."

Many companies' fleets are using two-way mobile satellite systems that transmit -- via satellites in low orbits -- messages to their drivers and that track vehicles' positions constantly. The satellite system's advantage is that it covers the entire continental United States. The disadvantage is that, unlike cellular systems, the system transmits only data, not voice.

Missouri's Galaxy Cablevision, for example, uses satellite technology at its Midwest regional service center, which takes orders from cable TV subscribers in five states. "Before we got our new system," says Ward Webb, vice president of Galaxy, "when a technician in Texas completed a job, he had to run to a pay phone to get his next job. We had 23 people checking in every morning to get their day's work. We had three dispatchers giving them their assignments."

Now, Galaxy uses an Omnitracs system, manufactured by QUALCOMM, Inc. of San Diego. The system provides automatic position reporting by satellite for 15 of Galaxy's service trucks. Each Galaxy driver has a keyboard/display unit for sending and receiving messages and can notify the office immediately when a job is finished.

Nation's Business, December, 1994

Webb says the system costs about \$ 4,000 per truck and \$ 70 to \$ 80 a month for transmission fees. "But it increases productivity by letting us plan our routes more efficiently and take better care of our customers. We think more customers will be the result," he adds.

Roberts Express of Akron, Ohio, with 1,400 vehicles nationwide, also uses OmniTRACS to track shipments. Instead of having drivers stop every few hours to call in, the company uses a system that pinpoints each vehicle's location:

"If our tracking system indicates a vehicle is behind schedule, we can send a message to the customer with the estimated time of arrival," says Joe Greulich, director of management information services. "We can let customers know where their freight is, and we can be more productive internally because we aren't adding as many dispatchers/service agents."

Another satellite user, CRST Inc., a truckload carrier in Cedar Rapids, Iowa, communicates with its drivers through Rockwell International's mobile data terminal screen. The home office's messages to drivers appear on the screen, and drivers can send messages of up to 44,000 characters back to their base.

Some mobile-communication systems are neither cellular nor satellite-based. Using wireless data communications, hand-held portable computers, and bar-code scanners, many smaller fleets are collecting information on shipments as the freight is being loaded onto their delivery trucks.

Carolina Freight Carriers, of Cherryville, N.C., has adopted a system that transmits both voice and two-way data by radio. Called specialized mobile radio, it uses a portion of the radio spectrum once reserved for taxis. The system is provided by Racotek of Minneapolis as well as other companies.

Since installing the system, primarily in its city trucks, Carolina's driver productivity, measured in stops per hour, has improved by 6 percent, and home-office productivity, too, has gone up 6 percent, according to the company.

Some companies use paging systems, which alert a driver by light, beeper, or both to call the office or whatever number appears on the pager's screen.

Choosing some system of mobile communications is doubtless a necessity for a large-fleet operator to remain competitive in an industry where time spent on the road is money -- and a lost, stranded, or empty truck generally translates into lost revenue.

The American Trucking Associations' Anderson says that some trucking companies that fill a special market niche might find they can prosper without a computer-linked mobile-communications system, but for the most part, those that ignore the technology "probably won't survive."

GRAPHIC: Photo 1, Walgreen driver Steve Moyer uses a cellular phone, a bar-code scanner, and a printer. PHOTO: (c) DAVID B. SUTTON; Photo 2 and 3, A computer's map display enables Priscilla Holliday of DU-WEST Foundation Repair, in Pasadena, Texas, to pinpoint the location of any truck in the company's fleet. PHOTOS: (c) ROCKY KNETEN

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Keycorp in \$4.5m GST deal  
AUSTRALIA: KEYCORP RECEIVED AU\$ 4.5MN ORDER  
The Australian (XAA) 14 Mar 2000 IT p.46  
Language: ENGLISH

Keycorp, the e-commerce specialist, has received an AU\$ 4.5mn order from a large local telecommunications company. Through Keycorp's Shop-In-A-Box, the telecommunications company will provide hardware and software to those retailers, who need a simple way in dealing with the goods and services (GST) tax. The Shop-In-A-Box, which contains a personal computer, keyboard, flat-\*screen\* monitor, receipt printer, \*barcode\* \*scanner\*, Eftpost facility and cash drawer, was launched on February 2000. The product will reduce the paper work associated with the GST, as it is equipped with back-end-accounting support. It can be extended to other functions such as stock control. Keycorp is planning to expand its business in China. China Telecom had ordered the K80, Keycorp's self service terminal. \*

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INTERNET FRIDGE DEVELOPED IN EUROPE  
EUROPE: NEW INTERNET FRIDGE TO BE LAUNCHED  
The Nikkei Weekly (NW) 08 Mar 1999 p.9  
Language: ENGLISH

Electrolux AB of Sweden and International Computers Ltd, an UK affiliate of Fujitsu Ltd of Japan, have created an Internet refrigerator. The partners will market a commercial model in the UK and in \*Scandinavia\* in 1999. The new appliance features a touch \*screen\* and \*bar\* \*code\* \*scanner\* that will be fitted to the door, the modem and other devices will be installed inside the appliance. Owners will then be able to use electronic mail, access the Internet and use the scanner to create a grocery list and order goods from a supermarket.

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CHRONOPOST confie \ IBM/  
FRANCE: IBM WINS CONTRACT WITH CHRONOPOST  
Le Monde Informatique (LMI) 18 Oct 1996 p.12  
Language: FRENCH

Using a mobile typing unit with a touch \*screen\* and a \*barcode\* \*reader\*, the drivers of Chronopost send any urgent data such as delivery time and ID, to a central server via a radio link. This is the new real-time system that IBM will have to install to follow up the parcels <of the French state-owned parcels' delivery firm, a subsidiary of La Poste, the post office>.

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Telxon POS real-time  
AUSTRALIA: TELXON UNVEILS POS REAL-TIME  
The Australian (XAA) 29 Nov 1994 Computers P. 38  
Language: ENGLISH

Telxon Australia has launched a range of "portable point-of-sale computers with real-time RF communications", called POSXPRESS. The wireless POSXPRESS check-out stations are designed especially for outside locations. The POSXPRESS 5000 includes features such as \*barcode\* and magnetic stripe \*scanning\* and a touch \*screen\* interface. According to a spokesman from Telxon, the POSXPRESS operates on software designed to transmit back to an IBM 4680 controller but it can support other older IBM or other brand POS terminals. \*

11/7/5 (Item 5 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
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05624356  
Fax Provides Display Unit  
JAPAN - MURATA MACHINERY FAX INCLUDES A DISPLAY UNIT  
Office Equipment & Products (OEP) 0 January 1993 p21  
ISSN: 0387-5245

Murata Machinery has introduced the Y128k DF-101 facsimile that prints an A4 page in 15 secs and incorporates a 115 mm x 86 mm display unit. The DF-101's large backlit LCD uses a touch-sensitive screen for easy operation. Suitable for use by distribution dealers as a terminal for placing and accepting orders, the DF-101 can register a total of 100 fax and telephone numbers. The DF-101 accommodates software links for money transfers and other bank transactions and its applications can be extended by connecting an optional \*barcode\* or magnetic card \*reader\* to the RS-232C terminal. \*Screen\* information and display-unit communication records can also be printed out by the DF-101.

11/7/6 (Item 6 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
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05442195  
...LAUNCHES TELEGENIC MULTIMEDIA COMMUNICATIONS TERMINALS/  
JAPAN - FUJITSU LAUNCHES TELEGENIC  
Computergram International (CGI) 12 November 1992 p1  
ISSN: 0268-716X

Fujitsu has announced a simple data communications terminal called Telegenic 80 and a multimedia terminal called Telegenic 140, which incorporates a facsimile function. These products link to Fujitsu's Fenics host computer value-added network service, and via use of a plug-in chip card act as display and emulation terminals for functions such as stock enquiry and database retrieval. The Telegenic 80 has a 16-bit processor with an in-built modem and two JEIDA Version 4 standard chip card slots, along with an 80 character (40 Kanji characters by 28 lines) LCD \*screen\*

and an RS-232C port for optional attachment of a \*bar\* \*code\* \*reader\* and magnetic card reader. The Telegenic 140 has a Group III facsimile modem capable of sending an A4 page at around 15 seconds.\*

11/7/7 (Item 7 from file: 583)  
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04216824  
PHOENIX MAKES PC-BUILDING EASY WITH NEW PRODUCTS  
US - PHOENIX MAKES PC-BUILDING EASY WITH NEW PRODUCTS  
Computergram International (CGI) 18 April 1991 p1  
ISSN: 0268-716X

Phoenix Technologies (Norwood, MA) is shipping the new PhoenixView/LC, a VGA video BIOS for the flat-panel displays found in portable or palmtop systems, and PhoenixView, a new VGA video BIOS for desktop personal computers. The company says it has shipped the software to 29 manufacturers that are developing 80386SX and 80386SL-based notebooks. Improvements in video performance are said to be in graphics drawing, Windows 3.0, three dimensional imaging, support for active-matrix colour liquid crystal display panels, character-text write-to-\*screen\* and display of \*scanned\* images. It is based on the PhoenixView \*code\* base, but modified for power management functions, and there is support for functions like simultaneous display on cathode-ray tube desktop monitors and LCD flat-panel monitors.

11/7/8 (Item 8 from file: 583)  
DIALOG(R) File 583:Gale Group Globalbase(TM)  
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04190349  
PSION DEVELOPS HANDHELD INDUSTRIAL COMPUTER  
UK - PSION DEVELOPS HANDHELD INDUSTRIAL COMPUTER  
Financial Times (C) 1991 (FT) 5 April 1991 p12

Psion (UK): electronic organiser and portable computer manufacturer, has developed a hand-held unit for use in industrial or commercial applications for tasks such as stock-taking, quality control monitoring or for looking up prices and information. Similar in shape to the Psion organiser, the HC range of hand-held units can be used with a range of peripherals such as \*bar\*-\*code\* \*readers\* and \*scanners\*. Each unit has a 16 bit processor, LCD \*screen\* and loudspeaker to broadcast digitally recorded speech. Psion believes the market for such hand-held machines is about to take off. Figures from industry analysts Dataquest show that the sector is growing faster than either the laptop or notebook market - at a rate of more than 90 per cent a year. (Abstract. Copyright The Financial Times Limited 1991)\*\*

Copyright: Financial Times Ltd 1991

11/7/9 (Item 9 from file: 583)  
DIALOG(R) File 583:Gale Group Globalbase(TM)  
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03476351  
INFORMATION STRATEGIES DEVELOPS DATA VISION  
US - INFORMATION STRATEGIES DEVELOPS DATA VISION  
Plastics Engineering (PSE) 0 April 1990 p60  
ISSN: 0091-9578

Information Strategies (Richardson, TX) has developed Data Vision keyless data entry. The product works by way of touch \*screens\* and \*barcode\* \*scanning\* devices. Data Vision, data collection software, is capable of supporting simultaneously multiple manufacturers' barcode systems.

11/7/10 (Item 10 from file: 583)  
DIALOG(R) File 583:Gale Group Globalbase(TM)  
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02916218  
CS DATAPRODUKTER LAUNCH NEW HAND HELD COMPUTER  
SWEDEN - CS DATAPRODUKTER LAUNCH NEW HAND HELD COMPUTER  
Packmarknaden Scandinavia (PS) 0 August 1989 p64  
ISSN: 0348-260X  
Language: Swedish

CS Dataproducter (Orebro, Sweden), computer firm, has launched TimeWand II, a 170g hand held computer.. The computer has a built- in \*bar\* \*code\* \*reader\*, and coms complete with keyboard, character \*screen\* and asynchronous RS232-door, for communication with other computer systems. The programme language is C.

11/7/11 (Item 11 from file: 583)  
DIALOG(R) File 583:Gale Group Globalbase(TM)  
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00476517  
UNSTAFFED SUPERMARKET TESTED  
US - UNSTAFFED SUPERMARKET TESTED  
Times (TS) 26 August 1986 p21

Kroger Food Store near Atlanta, is testing a new point-of-sale system called, Expressit, from Checkrobot. The customer passes each product over a price-\*scanner\*, which reads the \*bar\* \*code\* and displays the price on a computer \*screen\*, also giving the total so far. Price is also given by a computer voice. The customer then places the goods on a conveyor belt, if it has been properly registered, then the belt moves forward, or moves into reverse if it has not been registered.

11/7/12 (Item 1 from file: 2)  
DIALOG(R) File 2:INSPEC  
(c) 2003 Institution of Electrical Engineers. All rts. reserv.

5659783 INSPEC Abstract Number: C9709-7180-007  
Title: Making tracks [logistics computing]  
Author(s): Dawson, S.  
Journal: SHD Storage - Handling - Distribution vol.41, no.6 p.58-60  
Publisher: Turret Group,  
Publication Date: June 1997 Country of Publication: UK  
CODEN: STHDA3 ISSN: 0039-1832  
SICI: 0039-1832(199706)41:6L.58:MTLC;1-1  
Material Identity Number: A816-97006  
Language: English Document Type: Journal Paper (JP)  
Treatment: Applications (A)  
Abstract: Parcelforce has unveiled the international element of what it believes will be Europe's largest and most modern consignment tracing system. The International Acceptance Gateway (IAG) has been designed to be

Europe's most powerful export parcels tracking system. The IAG will be able to scan all the 4 million export parcels handled each year. It is a \*screen\* based system running under Microsoft Windows. An operator \*scans\* the parcel \*barcode\*, inputs the details of country and product, and the parcel is automatically weighed. Customers can 'phone Parcelforce to obtain the latest dispatch information. (0 Refs)

Subfile: C

Copyright 1997, IEE

11/7/13 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

03720600 INSPEC Abstract Number: C90062253

Title: In touch with the shop floor (JIT with WIP monitoring)

Author(s): Phipps, A.M.

Journal: Automation vol.27, no.5 p.32-3

Publication Date: June 1990 Country of Publication: UK

CODEN: ATMMNBV ISSN: 0005-1152

Language: English Document Type: Journal Paper (JP)

Treatment: Applications (A)

Abstract: The John Fluke Manufacturing Company in Everett, Washington, USA, needed to improve the on-time delivery rate of its sheet metal shop. It thus sought to replace the old manual Work-in-Progress (WIP) monitoring system, and to achieve just-in-time manufacturing by completing sheet metal parts just as the main assembly line needed them. An automated data collection system, using Philips Touch Control \*Screens\* and Intermec \*barcode\* \*readers\*, has been installed. Work order status data is entered into a multiuser database centred on a networked server. Although conventionally the JIT concept argues against using computers for WIP monitoring, the system has proven that the two can work together. (0 Refs)

Subfile: C

11/7/14 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

03685347 INSPEC Abstract Number: C90052998

Title: Computers in intensive care units: patient management using the PDB System

Author(s): Salasidis, R.; Padjen, A.L.; Fleiszer, D.

Author Affiliation: Dept. of Pharmacology & Therapeutics, McGill Univ., Que., Canada

Conference Title: MEDINFO 89. Proceedings of the Sixth Conference on Medical Informatics p.1200

Editor(s): Barber, B.; Cao, D.; Qin, D.; Wagner, G.

Publisher: North-Holland, Amsterdam, Netherlands

Publication Date: 1989 Country of Publication: Netherlands 2 vol. (xlix+xxiv+1262) pp.

ISBN: 0 444 88138 7

Conference Date: 16-20 Oct. 1989 and 11-15 Dec. 1989

Conference Location: Beijing, China and Singapore

Language: English Document Type: Conference Paper (PA)

Treatment: Applications (A); Practical (P)

Abstract: Summary form only given. The PDB System was originally developed as a generic patient data base. The authors describe adaptation and the use of the PDB System in the surgical intensive care unit at the Montreal General Hospital. In response to the user feedback, several features have been added to the prototype system in order to customize its

use in an ICU. More specifically, Custom Entry Forms and \*Bar\* \*Code\* \*Scanner\* were introduced to improve data entry process, and a \*Screen\* Bedside Flowsheet was added to facilitate review of patient data. (0 Refs)

Subfile: C

11/7/15 (Item 4 from file: 2)

DIALOG(R)File 2:INSPEC  
(c) 2003 Institution of Electrical Engineers. All rts. reserv.

03287362 INSPEC Abstract Number: B89005282, C89007822

**Title:** A unified look at test equipment for design, manufacturing and service

Author(s): Prednis, L.J.

Author Affiliation: TRW Corp., San Diego, CA, USA

Conference Title: TEST 1988: ATE and Instrumentation Conference West Proceedings p.491-2

Publisher: MG Expositions Group, Boston, MA, USA

Publication Date: 1988 Country of Publication: USA xi+719 pp.

Conference Sponsor: Electron. Test; Circuits Manuf.; EOS/ESD Technol

Conference Date: 11-14 Jan. 1988 Conference Location: Anaheim, CA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: MDM Telecommunication's goal is to achieve total quality control integrating the design, manufacture, test and customer support of the ISDN1000 System with minimum risk. It is suggested that if total integration of MDM Telecommunications Departments is to be attained, CAD, CAE, simulation, touch sensitive \*screens\*, \*bar\* \*code\* \*readers\* and total quality/process control networking should be implemented to provide the initial and continual integration of design, manufacture, test and customer support not only for this product but all future programs. (0 Refs)

Subfile: B C

11/7/16 (Item 5 from file: 2)

DIALOG(R)File 2:INSPEC  
(c) 2003 Institution of Electrical Engineers. All rts. reserv.

02762009 INSPEC Abstract Number: C86055996

**Title:** Mice and digitizers gain respectability and market share

Author(s): Kuklinski, T.

Author Affiliation: Kitek Res., Newton, MA, USA

Journal: Hardcopy vol.6, no.8 p.114-15, 120-2

Publication Date: Aug. 1986 Country of Publication: USA

CODEN: HRDCEJ ISSN: 0279-8123

Language: English Document Type: Journal Paper (JP)

Treatment: General, Review (G); Practical (P); Product Review (R)

Abstract: A plethora of input devices is joining the keyboards on desk tops. Advances in other areas of hardware and software technology have helped fuel the development of these input technologies. They include such former 'exotic' peripherals as digitizing tablets, mice, touch-\*screens\*, video frame grabbers, \*bar\*-\*code\* \*readers\*, character recognition, and voice-input systems. Input devices fall into three general categories: locator devices for interactive computer applications that require positioning, image-input devices such as video frame grabbers and scanners and character-oriented input devices. This article also provides a product listing of input devices. (0 Refs)

Subfile: C

11/7/17 (Item 6 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

02202476 INSPEC Abstract Number: C84012720

**Title: TRS 80 Model 100: a 'new look' portable (microcomputer)**

Author(s): Anger, M.

Journal: Micro Systemes no.37 p.86-91

Publication Date: Dec. 1983 Country of Publication: France

CODEN: MSYSDT ISSN: 0183-5084

Language: French Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: The model described measures 21%0M21\*5 cm and weighs 1.8 kg. Special features highlighted include an adjustable display window overcoming the limitations of liquid crystal \*screens\*, an external connector for a \*bar\* \*code\* \*reader\*, and utility program storage in read-only memory. (0 Refs)

Subfile: C

11/7/18 (Item 1 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.

(c) 2003 Info. Today Inc. All rts. reserv.

00529242 99LC03-006

**Total library computerization for Windows**

Combs, Joseph

Library Computing , March 1, 1999 , v18 n1 p39-50, 12 Page(s)

ISSN: 0742-5759

Company Name: On Point

URL: <http://www.onpointinc.com>

Product Name: Total Library Computerization 2.1

Presents a favorable review of Total Library Computerization for Windows v2.1 (\$2,850) from On Point, Inc. of Washington, D.C. (202). Notes that it is geared toward small to mid-sized libraries in offices or organizations. Features modules for online public access catalog; circulation and borrowing; acquisitions and orders; serials; interlibrary loan transactions and internal memos. Adds that the catalog module provides options to edit, add, or remove bibliographic records from the database. Indicates that it does not record fines on overdue items, so it may not be appropriate for small public libraries, although it is a product designed for smaller libraries. Says it provides a 126-page manual that is well-designed and covers most issues. Cautions that the online help \*screens\* are not easily accessed nor comprehensive. Recommends the \*barcode\* \*reader/\*scanner\* for circulation stations. Includes eleven \*screen\* displays and one chart. (sps)

11/7/19 (Item 2 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.

(c) 2003 Info. Today Inc. All rts. reserv.

00295659 92IN11-103

**If at first you don't succeed... -- Electronic Shopping**

Travis, Paul

InformationWEEK , November 9, 1992 , n399 p26, 1 Page(s)

ISSN: 8750-6874

Company Name: Michigan Bell Telephone; US Order

Product Name: ScanFone

Presents an overview of retailers' continuing quest for the optimum

electronic shopping and banking strategy despite repeated futile attempts. Examines one such strategy, ScanFone, developed by US Order of Herndon, VA and offered at a lease of \$12 a month by Michigan Bell Telephone Co. for Detroit-area customers. Says that \*ScanFone\* 's components include a 'smart' telephone with a display \*screen\*, a \*bar\*-\*code\* \*scanner\* and credit-card magnetic-strip \*reader\* ; what sets it apart from other electronic shopping strategies, however, is its catalog which provides full-color images of products and their corresponding bar codes. Includes a photo. (PAM)

11/7/20 (Item 3 from file: 233)  
DIALOG(R) File 233:Internet & Personal Comp. Abs.  
(c) 2003 Info. Today Inc. All rts. reserv.

00234729 91DM02-003

**Bar code bonanza** If accurate data entry -- or time and money -- are important to you, consider adding bar codes to your repertoire

Strehlo, Kevin  
DBMS , February 1, 1991 , v4 n2 p55-63, 7 Pages  
ISSN: 1041-5173

Presents a general discussion of bar codes. Discusses the different hardware used for reading bar codes and converting the data to computer-usable information. Says the use of barcodes gives the advantage of accuracy and speed, and have the edge where it would be highly impractical to use a keyboard. Includes two sidebars: the first features \*bar\* \*code\* symbologies; the second presents a wand-type \*bar\* \*code\* \*reader\*. Includes three \*screen\* displays and a drawing. (tbc)

11/7/21 (Item 4 from file: 233)  
DIALOG(R) File 233:Internet & Personal Comp. Abs.  
(c) 2003 Info. Today Inc. All rts. reserv.

00151331 87PI09-060

**Excalibur Plus**  
Fitzhenry, Patrick  
PC Magazine , Sep 15 1987 , v6 n15 p200-203, 2 Pages  
ISSN: 0745-2500

Gives a favorable review of Excalibur Plus (\$695 per module), accounting software, from Armor Systems Inc., Maitland, FL (305). It requires an IBM PC with 256K, a hard disk, and DOS 2.0 or later. A multiuser version is available. Says it is a "strong high-end accounting package with excellent Accounts Receivable module." Finds it easy to install and use. May be integrated with cash drawers and \*bar\* \*code\* \*readers\*. Documentation could be better. Includes a \*screen\* display.

11/7/22 (Item 5 from file: 233)  
DIALOG(R) File 233:Internet & Personal Comp. Abs.  
(c) 2003 Info. Today Inc. All rts. reserv.

00099977 84PW07-104

**Input**  
Tiddens, Mark  
PC World , Mid-Jul 1984 , v2 n8 p44-46, 3 Pages  
ISSN: 0737-8939

Describes all of the possible devices for input to a computer. Points out that keyboards, joysticks, track balls, light pens and touch \*screens\*, digitizing pads and touchpads, mice, \*bar\* \*code\* \*readers\*, and optical character \*readers\* are all ways to control the computer.

11/7/23 (Item 6 from file: 233)  
DIALOG(R)File 233:Internet & Personal Comp. Abs.  
(c) 2003 Info. Today Inc. All rts. reserv.

00027242 8134125  
**Glitchoidz report (Sep81)**  
Sync , Sep/Oct 1981 , v1 n5 p4 , 1 page  
ISSN: 0279-5701  
Corrections for: "Handling Character Strings", "Black Hole",  
"Perceptions", "Machine \*Code\* Keyboard \*Scanning\* Program", "\*Screen\*  
Scrolling", "Multi-Dimensional Arrays for the ZX80", "Detective" and  
"Mini-Billboard."

11/7/24 (Item 1 from file: 474)  
DIALOG(R)File 474:New York Times Abs  
(c) 2003 The New York Times. All rts. reserv.

07666071 NYT Sequence Number: 388181990218  
**FOR THE REFRIGERATOR, A SILICON-CHIP TREAT**  
Richtel, Matt  
New York Times, Col. 3, Pg. 3, Sec. G  
Thursday February 18 1999

ABSTRACT:  
Electrolux and ICL, a software company, develop a refrigerator-freezer  
equipped with a touch \*screen\* and \*bar\*-\*code\* \*scanner\*; photo (S)

11/7/25 (Item 1 from file: 99)  
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
(c) 2003 The HW Wilson Co. All rts. reserv.

1501381 H.W. WILSON RECORD NUMBER: BAST94022972  
**"Anyone can find a pallet load when it's needed"**  
Modern Materials Handling v. 49 (Mar. '94) p. 96/S9-S10  
DOCUMENT TYPE: Feature Article ISSN: 0026-8038

ABSTRACT: An information network manages a custom direct mail catalog  
print and shipping facility at McGill/Jensen's 300,000 sq ft printing  
facility in St. Paul, Minnesota, where between 8 million and 19 million  
catalogs are printed per week. Bar codes are printed for each pallet as  
sections of a catalog are run off the printing machine. Lift trucks are  
equipped with full-\*screen\* terminals with radio frequency data  
communications and \*bar\* \*code\* \*scanners\*. The lift truck operator places  
the pallet in an open storage location and links the work-in-process load  
and its position by scanning the bar code information on each pallet. This  
facilitates retrieval of a pallet load when required. .

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ile 256:SoftBase:Reviews,Companies&Prods. 82-2003/May  
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Set	Items	Description
S1	2400	(MOBILE OR RADIO OR PORTABLE OR CELLULAR OR REMOTE OR WIRELESS) (3N) (UNIT? OR DEVICE? ? OR APPARATUS OR TELEPHONE? ? OR -PAGER? ? OR TERMINAL?) OR (WIRELESS OR CELL? OR MOBILE) ()PHONE? OR CELLPHONE?
S2	2349	PDA OR PERSONAL()DIGITAL()ASSISTANT? OR (POCKET OR PORTABLE OR PALM()TOP OR PALMTOP OR HAND()HELD OR HANDHELD) ()COMPUTER? OR PALM? OR HANSDRING OR BLACKBERRY
S3	810	VOICE() (PRINT? OR PATTERN? ? OR SIGNATURE? OR CHARACTERISTIC? OR RECOGNITION) OR DIGITAL()VOICE OR BIOMETRIC? OR BIO-()METRIC?
S4	8886	BARCODE? OR BAR()CODE? OR IPC OR SKU OR CODE
S5	5646	SCREEN OR SCREENS
S6	3362	DISPLAY
S7	5083	SCAN? OR READER?
S8	73	(S1 OR S2) AND S4 AND S7
S9	56	RD (unique items)
S10	33	S9/2001:2003
S11	23	S9 NOT S10

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S11 23 S9 NOT S10  
? t 11/7/all

**11/7/1**

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
(c)2003 Info.Sources Inc. All rts. reserv.

00127068 DOCUMENT TYPE: Review

PRODUCT NAMES: Accupak Mechanical Event Simulation (798622)

TITLE: Walking a Fine Line: Mechanical Event Simulation software helps...

AUTHOR: Woodburn, Bill

SOURCE: Desktop Engineering Magazine, v6 n1 p58(3) Sep 2000

ISSN: 1085-0422

Homepage: <http://www.deskeng.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

Intermec Technologies, a manufacturer of mobile \*handheld\* \*computers\* and automated data collection devices, recently used Accupak Mechanical Event Simulation software from Algor to assess the suitability of an integrated \*scanner\* module design for a \*handheld\* \*computer\*. The module is a pod that consists of a laser,\*scanner\* for \*barcode\* recognition and a microswitch housed within a polycarbonate and ABS plastic blend, and which attaches to the back of a \*handheld\* \*computer\*. The \*scanner\* is activated by pressing a button attached to the housing, then the \*scanner\* reads the \*barcode\* into the handheld device. Durability and life tests were performed on this module. After testing the module, changes were made in the design, and by using Mechanical Event Simulation, design optimization ideas were quickly circulated to several departments. The software produces animated results, which makes it easier for all levels of engineering to understand the results and implications of a stress analysis.

REVISION DATE: 20020430

**11/7/2**

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00126531 DOCUMENT TYPE: Review

PRODUCT NAMES: McAfee VirusScan Wireless (299791); Symantec AntiVirus for the \*Palm\* OS (022464); F-Secure Anti-Virus for Epoc (747122); WAP (839027)

TITLE: Anti-virus cures for handhelds proliferate

AUTHOR: Niccolai, James

SOURCE: InfoWorld, v22 n41 p33(1) Oct 9, 2000

ISSN: 0199-6649

Homepage: <http://www.infoworld.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

Network Associates' McAfee VirusScan Wireless, Symantec's Symantec AntiVirus for the \*Palm\* OS, F-Secure's F-Secure Antivirus for Epoc, and

Wireless Application Protocol (WAP) are highlighted in a discussion of vendors' security-software development for \*wireless\* \*devices\*. McAfee VirusScan \*Wireless\* guards corporate networks against viruses that can come in on an employee's \*personal\* \*digital\* \*assistants\* (PDAs), while AntiVirus for the \*Palm\* OS is the first product that can \*scan\* for known Trojan horses, worms, and other viruses on the devices. F-Secure Antivirus for Edoc is similar, with the ability to protect \*mobile\* \*phones\*. Finjan Software's product does not \*scan\* for particular viruses. Rather it looks at \*code\* for types of behavior, and if a destructive program tries to delete a file or open a network connection, the software blocks the behavior and tells the user. Finjan is also developing an antivirus product for \*Palm\* and Microsoft Pocket PC devices that use this method. McAfee, Symantec, F-Secure, and Trend Micro have each said they will explore the behavioral approach, and Trend Micro is also pursuing a server-based approach that uses WAP gateway software to \*scan\* files for destructive \*code\* before the files are sent to users.

REVISION DATE: 20020930

**11/7/3**

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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00126439 DOCUMENT TYPE: Review

PRODUCT NAMES: **ViaWare WMS (432059)**

**TITLE: Web-Enabled, Wireless, and Wonderful: Warehouse Management Systems**  
**AUTHOR: Malone, Bridget**  
**SOURCE: Electronic Commerce World, v10 n8 p40(3) Aug 2000**  
**ISSN: 1092-0366**  
**Homepage: <http://www.ecomworld.com>**

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

Provia Software's VIAWARE WMS is used by Ryder System, a logistics and transportation provider, to deploy Web-enabled, wireless, efficient warehouse management. Warehouses, which are now distribution centers rather than inventory storage facilities, could at some point become unnecessary. With new technologies and software running warehouses, the actual bricks-and-mortar warehouse could become obsolete. About 3,000 WMS vendors operate in the market. The use of \*wireless\* handheld \*devices\* in combination with handheld \*barcode\* \*scanners\* and Internet transmission can significantly streamline many activities. A WMS coordinates the stock on a warehouse's receiving dock with outbound orders, so that put-away and pick activities are unnecessary and cross-docking can replace those tasks. Cross-docking is growing in popularity, says Chris Newton, an industry analyst for supply chain management (SCM), who also explains that companies using warehouse management systems do so to 'make their processes fluid'. Topics covered include \*scanning\* the Internet; Symbol Technologies, which uses \*barcodes\* and lasers to \*scan\* items and creates a data file that moves around with the goods; and VIAWARE, which has been expanded to include a transportation management system, order management, and yard management.

REVISION DATE: 20020730

**11/7/4**

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00125647 DOCUMENT TYPE: Review

PRODUCT NAMES: ClearType (780651); Pocket PC (004952); Microsoft Passport (745677); Microsoft \*Reader\* (791016)

TITLE: Copy Protection: Just Say No

AUTHOR: Kay, Russell

SOURCE: Computerworld, v34 n36 p66(1) Sep 4, 2000

ISSN: 0010-4841

Homepage: <http://www.computerworld.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

Microsoft ClearType, PocketPC, PassPort, and \*Reader\* provide an e-book platform that is technically brilliant but holds book buyers to some awkward and disturbing procedures, including a clumsy setup procedure. ClearType provides font-rendering technology with Microsoft \*Reader\* on the Pocket PC. Microsoft \*Reader\* is also available for the PC platform. After testing, users describe the configuration as 'overshadowed by an irrational and unprecedented set of restrictions whose fairness is highly questionable.' Only downloading was easy, and all other tasks demonstrated unwelcome surprises. For instance, users have to activate the program before purchasing e-books, which requires an account with PassPort. Users then had to download a Secure Repository and an encrypted Activation Certificate. Microsoft loads information about the system, including a computer hardware identification \*code\*. Users can activate \*Reader\* on only two devices, and for more must create additional PassPort accounts, which are not fully interchangeable for all devices. Other topics briefly covered include e-book pricing, Richard Stallman's low opinion of Microsoft's e-book technology, and users' views of 'copy protection.'

REVISION DATE: 20020830

**11/7/5**

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00122977 DOCUMENT TYPE: Review

PRODUCT NAMES: DB2 (701866)

TITLE: 'Easi-Order': It's a sophisticated home-shopping service...

AUTHOR: Anthes, Gary H

SOURCE: Computerworld, v34 n12 p46(3) Mar 20, 2000

ISSN: 0010-4841

Homepage: <http://www.computerworld.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

Safeway PLC's IBM DB2 database-supported Easi-Order system, a home-based grocery shopping service, is capable of remembering every purchase made by a specific shopper and predicting that shopper's current and future needs.

For instance, shoppers get suggestions on what to purchase based on earlier purchases and can view a 'draft order' on a \*Palm\* III \*PDA\*. The shopper may also, for example, be advised that Safeway's own brand of toothpaste is available. If the shopper wants to buy something new or something purchased a long time ago, the shopper can swipe the \*barcode\* from saved packaging using the \*scanner\* built into the special \*PDA\* used for the Easi-Order system. If such packaging and \*barcodes\* are not available, a shopper can describe the item in a text format that sends e-mail to Safeway. After editing the order, the shopper links the \*PDA\* to the phone and dials up an IBM server. A S/390 mainframe sends the order to the server with a note explaining that the order will be picked up at a specific store within a specified time period. Easi-Order is one of several home-based grocery shopping services, but the only one to use PDAs and the only one with such advanced data mining, according to an analyst. Easi-Order has been operating for four years and remembers all the possible 22,000 items purchased by 10 million shoppers in Britain in that period.

REVISION DATE: 20020830

11/7/6

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00121709 DOCUMENT TYPE: Review

PRODUCT NAMES: \*Palm\* OS 3 (608751); Oracle Lite (496065); Oracle 8i (004233)

TITLE: Handhelds Link to Inventory Database: Oracle Lite facilitates inve...

AUTHOR: Hamblen, Matt

SOURCE: Computerworld, v34 n6 p64(1) Feb 7, 2000

ISSN: 0010-4841

Homepage: <http://www.computerworld.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

Chicago's United Center Arena uses 3Com's \*Palm\* OS 3 and Oracle's Oracle Lite and Oracle 8i to track inventory and sales. Should Microsoft Windows CE be required on handhelds, Oracle Lite will be compatible on supporting devices. With the Oracle-based handheld system, sports merchandise vendors operating at the arena can be sure that they do not run short of anything, since handhelds use \*barcode\* \*readers\* capable of checking merchandise into a warehouse and recording each sale made by a vendor. The back-end Oracle 8i database tracks inventory and will soon link over an extranet to enable automated ordering of required merchandise. Oracle Lite, a 50KB client/server package, is stored on 50 SPT 1700 handhelds running the \*Palm\* III OS and fitted with \*barcode\* \*readers\*. Oracle Lite is a thin-client database for Java and was an excellent choice for the United Center since the arena has run the Oracle 8i server for three years and is experienced with Oracle's products and services. According to the technical director for the United Center, the Oracle Lite architecture supports reconciliation and synchronization with the database server to provide unusually powerful support for the mobile market. With the Oracle/handheld solution, monthly inventory in the warehouse requires the efforts of two or three clerks for a few hours, a process that formerly required three days. The center is also updating the system with a Web application server that will automatically forward inventory purchase orders to suppliers via the

Internet.

REVISION DATE: 20030428

**11/7/7**  
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00121674 DOCUMENT TYPE: Review

PRODUCT NAMES: PkMS (486931)

**TITLE:** High-End WMS Orchestrates Multiple Job Assignments  
**AUTHOR:** Glanzer, Kristine  
**SOURCE:** Managing Automation, v14 n11 p55(2) Nov 1999  
**ISSN:** 0089-3805  
**HOME PAGE:** <http://www.managingautomation.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

Two manufacturing companies describe their use of high-end warehouse management systems to synchronize and streamline completion of multiple job assignments. J.E. Morgan Knitting Mills uses PkMS from Manhattan Associates to automate tasks and currently runs three paperless warehouses. All tasks are prioritized, and task management makes sure that required jobs are modeled and completed as quickly as possible. Time spent moving around the warehouse unproductively is reduced by controlling the work sequence. Assignments move directly to \*radio\* frequency (RF) \*terminals\* mounted on warehouse transport vehicles, and when the task is finished, the operator transmits a \*scanned\* \*barcode\*-generated signal over an RF network to the WMS and reads the next assignment off the terminal. When tasks are blended, different types can be meshed to optimize labor and to leverage other resources. With task management, J E Morgan was able to reduce its operating shifts from three to two and also eliminated two supervisors. Cutler Hammer, a maker and distributor of electrical equipment and controls, increased productivity about 10 percent after installing Yantra's WMS. Cycle counting features have also increased inventory accuracy to 99 percent and give management more time for other tasks.

REVISION DATE: 20020530

**11/7/8**  
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00116673 DOCUMENT TYPE: Review

PRODUCT NAMES: Microsoft Terminal Server for Windows (673919); ThinPath personal touch plus (753939); Citrix MetaFrame 1.8 (706515)

**TITLE:** NCD Expands Terminal Server Capabilities

**AUTHOR:** Bekker, Scott

**SOURCE:** ent, v4 n6 p3(1) Mar 24, 1999

**ISSN:** 1085-2395

**HOME PAGE:** <http://www.entmag.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis  
GRADE: Product Analysis, No Rating

Network Computing Devices' ThinPath Plus and Citrix's Citrix MetaFrame 1.8 are highlighted in a discussion of new tools that extend the power of Microsoft Terminal Server for Windows. NCD's load-balancing and peripheral support tools include ThinPath Plus, which supports local printers, \*barcode\* \*scanners\*, and other peripherals; and ThinPath Load Balancing. Two primary protocols connect desktops to Windows NT 4.0 \*Terminal\* Server Edition: Microsoft \*Remote\* Display Protocol (RDP) and Citrix's Independent Computing Architecture (ICA) protocol. NCD's tools give RDP some of the more powerful features provided by ICA. NCD's target market is the group of customers seeking more functions provided by RDP for Windows PCs, but who do not want to buy a high-end product from Citrix. Microsoft notes that RDP and ICA customers benefit from NCD's technology because they have more choices. Citrix adds the ability to make thin clients for Microsoft servers from non-Windows desktops, and MetaFrame 1.8 includes enhancements for application publishing, application deployment, management, and configuration. This release also includes video ability and ICA clients for Linux and SCO UNIX desktop users. Citrix also announced Citrix Resource Management Services and Citrix Installation Management Services, two system management products.

REVISION DATE: 20020130

11/7/9

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00112986 DOCUMENT TYPE: Review

PRODUCT NAMES: ApproveIT for Office (677965); OmniForm 3 (575003); Print Shop (009190); Logitech Color QuickCam Pro (730301); CardScan Executive (767352)

TITLE: Paperless Office

AUTHOR: Staff

SOURCE: PC/Computing, v11 n12 p256(2) Dec 1998

ISSN: 0899-1847

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

There are plenty of tools that can be used to work towards a paperless office, including Silanis Technology's ApproveIT for Office, Corex's CardScan Executive, Caere's OmniForm 3.0, Broderbund's Print Shop, and Logitech's Logitech Color QuickCam Pro. ApproveIT for Office is handy for making e-mail and electronic documents official. The program is used to \*scan\* a signature and affix it to any document that requires approval, or just a more personal touch. The signature can be encrypted and password-protected, and accessed from a pull-down menu in Microsoft Word. CardScan Executive can \*scan\* business cards into the \*PalmPilot\* easily. Filling out forms can be a nightmare, and Caere's OmniForm 3.0 can help make the process easier. Users can use OmniForm to \*scan\* in forms and make them electronic. The forms can also be spell-checked, and users can enjoy features and shortcuts like the autofill function. Users can also fill out forms online and submit forms via e-mail. Logitech Color QuickCam Pro can take digital video or snapshots of the workplace and can be used as a security product. Broderbund's Print Shop has many applications to keep

track of employees and customers, create fast photo ID cards, and more. Users simply take digital photos and drop them into an ID-card template made with Print Shop or another publishing program. It is also possible to drop in \*scanned\* logos, or even \*barcodes\*.

REVISION DATE: 20020830

**11/7/10**

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00111910 DOCUMENT TYPE: Review

**PRODUCT NAMES: Microsoft Windows CE 2.1 (633119)**

**TITLE: Windows CE Goes Vertical**

**AUTHOR: Spooner, John G**

**SOURCE: PC Week, v15 n45 p39(2) Nov 9, 1998**

**ISSN: 0740-1604**

**RECORD TYPE: Review**

**REVIEW TYPE: Product Analysis**

**GRADE: Product Analysis, No Rating**

Microsoft's Microsoft Windows CE 2.1 is required for 'data collection PCs,' which emphasize vertical markets and differ from Windows CE-based handheld PCs or \*palm\*-sized PCs. The latter provide horizontal applications, including e-mail, Web browsing, and personal information management. Intermec recently announced at the Embedded Systems Conference plans for a collection of data collection PC devices for vertical industries, including health care, retail, and warehousing, where special handhelds are now employed for such tasks as inventory tracking. The new \*devices\* will support \*wireless\* communications and will be designed to be very durable for use in high-stress environments. Intermec's devices will be similar to the vendor's Pen Key 6400 DOS-based handhelds, and will be designed to ease one-handed operation. Data collection PCs will also link with a corporate network via IEEE 802.11 wireless LAN technology. Such developers as Epic Data will provide middleware that permits data collection PCs to exchange data with enterprise resource planning (ERP) applications from various vendors, including SAP, Baan, and Oracle. Data collection PCs will also support \*barcode\* \*scanning\* for input of data and radio frequency identification, which permits them to be tracked via a building. Windows CE's advantage over DOS is its user-friendly interface, says a spokesperson from Epic.

REVISION DATE: 20020530

**11/7/11**

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00111205 DOCUMENT TYPE: Review

**PRODUCT NAMES: Warehouse Pro (720399)**

**TITLE: Gear Up And Go: Porsche Cars accelerates parts delivery, improves...**

**AUTHOR: Dilger, Karen Abramic**

**SOURCE: Manufacturing Systems, v16 n8 pS24A(3) Aug 1998**

ISSN: 0748-9488  
HOMEPAGE: <http://www.manufacturingsystems.com>

RECORD TYPE: Review  
REVIEW TYPE: Product Analysis  
GRADE: Product Analysis, No Rating

Logility's Warehouse Pro warehouse management system (WMS) is used by Porsche Cars North America to allow Porsche to meet its objective of matching customer service levels with the high quality of Porsche automobiles. Porsche's goals for the WMS were the ability to accelerate the receiving process by reconciling ordered parts with parts received; better accuracy for stored product locations and order picking, as well as control of scenarios requiring special shipping; lowering of freight charges resulting from reshipping of orders; and elimination of the time spent on manual tasks during data entry. The software has allowed Porsche to reassign staff who formerly checked orders before shipping. Porsche's replenishment tactics have also helped accelerate operations. Elimination of manual processing has enhanced order and shipping precision. Parts received from vendors generally arrive with \*barcoded\* labels, and receiving operations use \*radio\*-frequency \*terminals\* to \*scan\* part numbers and enter quantities. Then the system directs them to storage locations, and allows operators to confirm correctness of quantities and that the correct part is being stowed. Before Warehouse Pro, logging a shipment required as long as 10 days, but with Warehouse Pro the job is done in three days. Various other features and advantages of Warehouse Pro are described.

REVISION DATE: 20010630

11/7/12

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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00111059 DOCUMENT TYPE: Review

PRODUCT NAMES: Company--Veicon Technology (866393);  
Company--LearningStation.com (866407); Company--Microsoft Corp (850195)

TITLE: New breed of vendors embrace thin clients  
AUTHOR: Cox, John  
SOURCE: Network World, v15 n35 p15(2) Aug 31, 1998  
ISSN: 0887-7661  
HOMEPAGE: <http://www.nwfusion.com>

RECORD TYPE: Review  
REVIEW TYPE: Company

Veicon Technology and the Learningstation.com, two vendors of thin client technologies, believe that Microsoft's Microsoft Windows NT Terminal Server Edition (TSE) will allow them to deliver remote applications to many client devices, including conventional PCs, Windows terminals, and at some point in time information appliances that include \*handheld\* \*computers\*, digital assistants, and Web phones. Veicon's V-Link thin client is used by a Dallas hotel to provide guests with access to e-mail and other applications via Windows terminals. V-Link is a client that includes a Wyse Technology Windows terminal, a credit card \*reader\*, and some Veicon \*code\* that processes such tasks as credit card authorization and e-mail access. The TSE server is hosted by Veicon or an Internet service provider (ISP). Veicon will also provide the hotel with remote access servers which users

can dial into. The hotel can also offload Internet data calls from its PBX and collect revenue that would otherwise be paid to ISPs. Learningstation.com recently signed up two manufacturing customers, who will use thin-client technology and a subscription program to gain access to an ISP-hosted server farm; the server farm runs many applications, including research and training programs custom-developed for manufacturers.

REVISION DATE: 20021125

**11/7/13**

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
(c)2003 Info.Sources Inc. All rts. reserv.

00109640 DOCUMENT TYPE: Review

**PRODUCT NAMES: Power Label (400874)**

**TITLE: Figurine manufacturer keeps tabs on the goods**  
**AUTHOR: Staff**  
**SOURCE: Automatic ID News, v14 n6 p24(2) May 1998**  
**ISSN: 0890-9760**  
**Homepage: <http://www.AutoIDNews.com>**

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

Goebel North America, a manufacturer of ceramic figurines, tracks inventory using Power Label \*barcode\* label design software from StrandWare, and Mars' Marsware program generator. The combination allowed the company to design its own applications for its \*portable\* data \*terminal\*. The batch solution reduced inventory-taking from weeks to days due to the real-time data collection system. It completed a three-day physical inventory-taking using handheld data collection terminals. Because of the high value of the merchandise, a high degree of accuracy was of paramount importance. The company implemented barcoding, using \*Code\* 128 \*barcode\* labels to putaway locations, then marking inventory as it is received from the parent company in Germany. The firm started \*scanning\* two years ago, and they have refined their procedures significantly and have achieved a high degree of accuracy. After inventory, the information from the batch terminals is uploaded to a PC, then transported to an AS/400, which produces an inventory report. The process has been significantly improved, and before barcoding, took as long as two weeks to complete.

REVISION DATE: 20020530

**11/7/14**

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
(c)2003 Info.Sources Inc. All rts. reserv.

00106815 DOCUMENT TYPE: Review

**PRODUCT NAMES: DNSLink (698784); Warehouse PRO WMS (698792); DM Plus (698806); TRACS\* Tactical Routing & Consolidation System (621781); CA-PRMS Enterprise Solution (372994)**

**TITLE: Warehouses Are A Key Part of The Enterprise**

**AUTHOR: Schultz, George**

Karen Lehman EIC 3600 11-Jun-03

SOURCE: Managing Automation, v12 n12 p20(5) Dec 1997  
ISSN: 0089-3805  
HOMEPAGE: <http://www.managingautomation.com>

RECORD TYPE: Review  
REVIEW TYPE: Product Analysis  
GRADE: Product Analysis, No Rating

DNS Technologies' DNSLink, American Software's Warehouse PRO WMS, McHugh Software International's DM Plus, Wesely Software's (now McHugh's) Tactical Routing & Consolidation System (TRACS), and Computer Associates International's CA-PRMS Enterprise Solution are products highlighted in a discussion of development of market niches in the warehouse management system (WMS) market. An analyst says that the warehouse is no longer a cost operation, but a 'profit center, a differentiator, a market lever.' They benefit manufacturers because they can view requests in terms of inventory reduction, compliance labeling, and other value-added services that customers need. Warehouses in current use act as distribution centers that meet various needs, including those of final assembly or configuration of products for 'fast-in/fast-out orders.' Midwest Air Technologies, a newcomer to WMS technology, uses DNSLink Windows-based software to enter data on inbound materials using handheld \*radio\* frequency (RF) \*terminals\* to \*scan\* \*barcodes\*. The system interfaces with the company's accounting system, which is a significant benefit. Warehouse PRO WMS will provide closely integrated functions to Logility's logistics-based value-chain suite. Warehouse PRO WMS links with demand-chain and supply chain planning solutions. DM Plus is a real-time RF-based system that assists in managing inventory, and now integrates invisibly with TRACS.

REVISION DATE: 20020530

11/7/15  
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
(c)2003 Info.Sources Inc. All rts. reserv.

00105507 DOCUMENT TYPE: Review

PRODUCT NAMES: Hand-Trak (687308)

TITLE: Jensen Farms makes piece with payroll  
AUTHOR: Staff  
SOURCE: Automatic ID News, v13 n10 p25(2) Sep 1997  
ISSN: 0890-9760  
HOMEPAGE: <http://www.AutoIDNews.com>

RECORD TYPE: Review  
REVIEW TYPE: Product Analysis  
GRADE: Product Analysis, No Rating

Doane Agricultural Services' Hand-Trak, which includes basic and advanced versions of Percon PocketReader \*portable\* \*barcode\* \*scanning\* \*terminals\*, is used by Jensen Farms for collecting labor data in the fields. The company also uses a fully integrated payroll and accounting package. Jensen Farms' 200 employees, including seasonal laborers, are tracked with \*portable\* \*barcode\*-reading \*terminals\*. Data from the terminals allows automatic payroll generation and paperless creation and storage of needed records. The system became necessary when the farm, which encompasses more than 3,000 acres and four crops, increased the number of workers required to harvest crops. The farmer could no longer be sure that hours kept by contractors were precise, or that contractors were being fair with him or

his workers. Sometimes hours were turned in for workers who were not in the fields at all, and the contractors often charged for too many hours. The labor data capture and payroll generation system speeds data collection in the field and transparently downloads information to the computer system in the office. Doane, the developer, provides a line of software solutions for agriculture used by over 1,500 growers. To calculate piecework pay, the farmer uses a version of the data collection terminal with more extensive computing ability that allows piecework production calculation in the field.

REVISION DATE: 20020930

11/7/16

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00101943 DOCUMENT TYPE: Review

PRODUCT NAMES: Synercom/edi (664324)

TITLE: \*Bar\* \*Code\* Technology Keeps Tabs on Film Festival

AUTHOR: Zawackis, Jeanette M

SOURCE: Business Documents, v10 n3 p6(1) Mar 1997

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

\*Barcode\* technology and products such as Intermec's JANUS 2020 and Synercom/edi software improve the ticket-taking process at a film festival. At the Sundance Film Festival, a nonprofit event sponsored by the Sundance Institute, festival officials use the JANUS 2020 \*handheld\* \*computer\* and the Synercom/edi software to \*scan\* and read admission tickets, telling officials the type of ticket and the package or pass of the attendee. The \*scanning\* devices emit positive and negative beeps, depending on the ticket presented. Compared to the manual ticket-taking process, the \*barcode\*-based system is faster and offers improved accuracy. In addition, it is easy to use and gives festival organizers the opportunity to compare utilization rates by market segment. The data collection application can also pre-\*scan\* tickets and record the number of times a ticket or pass is used.

REVISION DATE: 20020630

11/7/17

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
(c)2003 Info.Sources Inc. All rts. reserv.

00096324 DOCUMENT TYPE: Review

PRODUCT NAMES: Barcoding (830208); National Defense (830418); Software; 2000-0430

TITLE: \*Bar\* \*Code\* Moves Military Munitions

AUTHOR: Quinn, Paul

SOURCE: ID Systems, v16 n9 p72(2) Sep 1996

ISSN: 0892-676X

Homepage: <http://www.idsystems.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis  
GRADE: Product Analysis, No Rating

A \*barcode\*-based tracking system is used by the Royal Marine Commando, Logistics Regiment in Plymouth, the United Kingdom to ensure that the ammunition supply line is open. The barcoding system reduces the time goods remain in transit and lowers the error rate for pallet contents identification. Pallets are packed in cases and are \*barcoded\* with \*Code\* 39-printed labels, while the cases themselves 'carry only human-readable information.' A specially programmed catalog with a description of every standard type of ammunition generates labels using a cataloged \*barcode\* for each item. A Datalogic DL910 wand \*scanner\* allows workers to \*scan\* in a \*barcode\* of the needed item. The \*scanner\* interfaces to a portable Radix FW 60 \*handheld\* \*computer\* linked to a host PC, which tells the printer to create labels.

REVISION DATE: 20020830

**11/7/18**

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
(c) 2003 Info.Sources Inc. All rts. reserv.

00095861 DOCUMENT TYPE: Review

PRODUCT NAMES: Microsoft Proxy Server (622257); Catapult (586773)

TITLE: Granting Web Access While Reducing the Worry

AUTHOR: Bruno, Lee

SOURCE: Data Communications, v25 n12 p39(2) Sep 1996

ISSN: 0363-6399

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

Microsoft's Microsoft Proxy Server software, \*code\*-named Catapult, simplifies Web access by establishing a cache of frequently used Web pages, and eliminates the need to assign an IP address to each desktop. Unfortunately, it does not include a Web interface, and can only be run from a Windows NT client. Proxy Server's caching scheme lets frequently requested Web sites be stored on the LAN for faster access and to save bandwidth. The software's two-mode caching scheme includes passive or active caching. Under the active mode, the software will \*scan\* a usage profile, determine the most popular sites, and then cache them locally. Managers can set parameters for caching, including the frequency at which the cached pages are updated. The cache size is limited only by the amount of available memory. Administrators avoid having to configure multiple IP addresses because only the Proxy Server itself needs an IP address. Proxy Server functions as a \*remote\* Winsock \*device\*, sending IP packets out on behalf of client applications when it receives a socket call.

REVISION DATE: 20010430

**11/7/19**

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
(c) 2003 Info.Sources Inc. All rts. reserv.

00087199 DOCUMENT TYPE: Review

PRODUCT NAMES: **Tactical Warehouse System (596817)**

**TITLE: Productivity soars at a school purchasing cooperative**  
AUTHOR: Allais, David C  
SOURCE: Automatic ID News, v11 n13 p18(2) Dec 1995  
ISSN: 0890-9760  
HOMEPAGE: <http://www.AutoIDNews.com>

RECORD TYPE: Review  
REVIEW TYPE: Product Analysis  
GRADE: Product Analysis, No Rating

A purchasing cooperative providing equipment and supplies to 284 school districts saves money by pooling the volume of many schools. However, its manual shipping order verification system proved cumbersome and costly. To automate the operation, the group deployed Applied Tactical Systems' Tactical Warehouse System (TWS) software. TWS was able to streamline the process, as well as increase speed and accuracy. The system provides a fast relational database tied to a real-time system of handheld \*barcode\* \*readers\*. The pilot system outfits each warehouse employee with a handheld \*scanner\* that communicates with TWS via a radio link. The operator can \*scan\* pick tickets affixed to cartons, and the display on the \*portable\* \*terminal\* can display the carton numbers. Following the verification process, the TWS software prints a packing list, including carton numbers.

REVISION DATE: 20020530

**11/7/20**

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
(c)2003 Info.Sources Inc. All rts. reserv.

00085050 DOCUMENT TYPE: Review

PRODUCT NAMES: **I-deas Master Series (010297)**

**TITLE: Creative Approaches Drive Design Team**  
AUTHOR: Maiman, Mitch  
SOURCE: Computer-Aided Engineering, v14 n11 p82(2) Nov 1995  
ISSN: 0733-3536  
HOMEPAGE: <http://www.penton.com/cae/>

RECORD TYPE: Review  
REVIEW TYPE: Product Analysis  
GRADE: Product Analysis, No Rating

A manufacturer of \*barcode\* data capture systems developed a rugged handheld \*portable\* \*computer\* with integrated \*barcode\* \*scanning\* systems and wireless communications. The product was developed with the help of integrated CAE tools, including SDRC's I-DEAS Master Series software running on SGI workstations. I-DEAS served as the primary engineering and design technology for the system. The Master Series was used exclusively for development and helped the team overcome complex housing geometry, analyze the fit of internal components against complicated contours, and perform engineering analysis tasks. The geometry generated in the I-DEAS program was sent directly to the tooling suppliers, who then used the data to create the molding and forming tools.

REVISION DATE: 20021030

11/7/21

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
(c)2003 Info.Sources Inc. All rts. reserv.

00083872 DOCUMENT TYPE: Review

PRODUCT NAMES: pcAIM (012320)

TITLE: Voice recognition makes for hands- and eyes-free operation

AUTHOR: Davis, Derek

SOURCE: Automatic ID News, v11 n10 p20(2) Sep 1995

ISSN: 0890-9760

Homepage: <http://www.AutoIDNews.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

Industries of the Blind (IOB), a private nonprofit corporation that provides employment for the visually impaired, uses Ann Arbor's PC/AIM Inventory Management software. The company manufactures specialty products for the General Services Administration and the Defense Logistics Supply Agency. The product runs on an EtherNet/Novell network, and employees use \*wireless\*, \*portable\* voice \*terminals\* with integrated \*bar\* \*code\* \*scanners\* to collect data and distribute information. The Talkman voice terminal allow users to easily \*scan\* or speak data fields and the device recognizes data received by type. Operators respond to preprogrammed prompts and enter preprogrammed responses. The system's advantages include eyes-free operation, paperless documentation, and real-time communication with the host. The system allows the firm to remain competitive by providing fast, accurate data entry.

REVISION DATE: 20030327

11/7/22

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
(c)2003 Info.Sources Inc. All rts. reserv.

00080545 DOCUMENT TYPE: Review

PRODUCT NAMES: CompuServe (493023); Advantis' IGN Firewall Services (544825); CA-Clipper (018678)

TITLE: Vehicle tracking system keeps automotive inventories rolling

AUTHOR: Jesitus, John

SOURCE: Automatic ID News, v11 n6 p20(2) Jun 1995

ISSN: 0890-9760

Homepage: <http://www.AutoIDNews.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

A transportation and freight management firm specializing in automobile stevedoring stays competitive and provides better customer service using a \*barcode\* vehicle tracking system created with the Clipper programming language; the system ensures easy vehicle location identification at any time. Bills of lading are received via electronic data interchange (EDI) transmission on CompuServe or the Advantis network. The shipment origin, related shipping records, vehicle identification numbers, models, colors,

and trim information are downloaded to \*handheld\* \*computers\* linked via a NetWare 3.11 DOS network. Arriving shipments are verified with a handheld laser \*scanner\*. After \*scanning\*, data is uploaded to a central computer. \*Barcodes\* are then printed and placed on the cars. The system also provides accounting control functions, including documentation of car maintenance and the number of employee hours used.

REVISION DATE: 20021030

11/7/23  
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00065374 DOCUMENT TYPE: Review

PRODUCT NAMES: Spectrum One (515281)

TITLE: \*Bar\* \*Code\* Scores at World Cup Soccer  
AUTHOR: DeBona, Robert  
SOURCE: ID Systems, v14 n6 p59(2) Jun 1994  
ISSN: 0892-676X  
HOMEPAGE: <http://www.idssystems.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

The World Cup Soccer tournament staff uses Spectrum One network with Symbol LRT 3800 Symbol Laser \*Radio\* \*Terminals\* to control access to secured areas of the soccer stadiums during the games. The devices use a \*barcode\* laser \*scanner\* with a laptop computer and high-speed radio frequency data communications functions. All staff associated with the event, including officials, visiting VIPs, media, team members, guests, workers, and volunteers, are issued \*barcoded\* ID cards. ID information is stored on SPRCcenter 2000 servers in Dallas, Texas, and can be modified and accessed in seconds. The Director of Technology Communications for the World Cup soccer organization, Bill Alaoglu, praises the system for its speed and data control, as well as for its seamless integration of data from all locations.

REVISION DATE: 20020530

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16/7/1 (Item 1 from file: 583)  
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09304739  
Step into Singapore's first Internet Home soon  
SINGAPORE: PILOT PROJECT FOR INTERNET HOME  
The Straits Times (XBB) 09 Jun 2000 p.3  
Language: ENGLISH

The Infocomm Development Authority of Singapore (IDA) and a group of infocomm companies have launched a pilot project for an Internet home. The Internet Home project will be carried out in a four-room Bishan flat owned by a young couple. It will come with DIY security, with web cameras to monitor the front door and carpark and indoor cameras to monitor the children. It will also have remote access for appliances such as air-conditioners and coffee-maker. These appliances can be controlled from touch-\*screen\* Web panels around the house or via a special website from the office. They can also be controlled via \*mobile\* \*phones\* using the WAP technology. Other round-the-clock services for the Internet home include an automated grocery list with a \*barcode\* \*reader\* in the refrigerator, online shopping, online search for neighbourhood facilities such as ATMs and banks, and making online appointments at a nearby clinic. The IDA hopes to expand the project to include other groups, such as senior citizens, parents with young children and the disabled. Its partners in the Internet home project include Cisco, which has built similar Internet homes in places such as Hongkong, Taiwan and Britain, SingTel Aeradio, Hewlett-Packard, ASPnetcentre, and International Video Conferencing Centre.

16/7/2 (Item 2 from file: 583)  
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09267956  
GE Appliances Reveals Consumer Benefits of Concept Smart Appliances  
US: NEW REFRIGERATOR BE GE APPLIANCES  
Press Release (GE Appliances) (PRS) 06 Apr 2000 p.e  
Language: ENGLISH

At the annual Kitchen and Bath Show in Chicago on 7-9 April 2000, GE Appliances will \*display\* a web-enabled refrigerator with a detachable wireless\* pad. It has a \*bar\* \*code\* \*scanner\*, which allows users to take a food inventory, build a shopping list and even alert them to ingredients they may be allergic to. The refrigerator will also let users know if the door is left open, communicating by a number of methods, including \*cell\* \*phone\*, \*pager\* and \*wireless\* pad.

16/7/3 (Item 3 from file: 583)  
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06405418  
Product Highlights  
SINGAPORE: SITEX TO SHOWCASE COMPUTER PRODUCTS  
The Straits Times (XBB) 11 Dec 1996 Supplementary P.3  
Language: ENGLISH

Sitex '96, an exhibition to be held in Singapore on 12-15 December 1996,

will showcase computer products and peripherals that increase productivity in the home and office. Some of the products on \*display\* are: 1) \*IPC\* Corporation Ltd's Family-Magic Excellente, a system designed to fully utilise the performance of the Pentium Pro processor; 2) Systems Technology Pte Ltd's Psion Series 3 \*palmtop\* \*computer\*, the Psion Series 3c; 3) System Technology's Encad Novajet Pro 36 and Novajet Pro large format colour printers; 4) System Technology's video-conferencing software, PhoneVision; 5) Proton Computers Pte Ltd's Epson GT-9500 high resolution, 36-bit colour \*scanner\*; 6) ActiveMind Singapore's digital map of Singapore on CD-ROM; and 7) Creative Technology's Sound Blaster AWE64, its next generation wavetable synthesis sound card.

sgend-1-1. Two major

16/7/4 (Item 4 from file: 583)  
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06384554  
CHRONOPOST confie \ IBM/  
FRANCE: IBM WINS CONTRACT WITH CHRONOPOST  
Le Monde Informatique (LMI) 18 Oct 1996 p.12  
Language: FRENCH

Using a \*mobile\* typing \*unit\* with a touch \*screen\* and a \*barcode\* \*reader\*, the drivers of Chronopost send any urgent data such as delivery time and ID, to a central server via a radio link. This is the new real-time system that IBM will have to install to follow up the parcels <of the French state-owned parcels delivery firm, a subsidiary of La Poste, the post office>.

16/7/5 (Item 5 from file: 583)  
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06208798  
Vikay to lift sales by at least 12% from new products in 1996  
SINGAPORE: VIKAY EXPECTS 12% SALES RISE FOR 1996  
The Straits Times (XBB) 3 October 1995 P. 33  
Language: ENGLISH

Singapore's Sesdaq-listed firm, Vikay Industrial have launched three new products, two components and a finished product which it hopes could lift sales by another 5% or US\$ 3.9 mn for 1995. Sales projections for 1995 and 1996 are expected to reach US\$ 81.9 mn and US\$ 154 mn respectively. The launched of these three products are expected to lift sales and revenue by 12% and 15% respectively for 1996 with projected revenue totalling US\$ 16.5 mn (S\$ 23.3 mn). Of these, US\$ 8.5 mn of the income will be generated by the liquid crystal shutter products for high performance colour and 3-D displays, US\$ 5 mn income will come from super compact \*display\* modules used in \*cellular\* \*phones\*, \*barcode\* \*readers\* and pagers and US\$ 3 mn income will come from the global positioning system receivers. These forecasts are adopted on a conservative approach by the liquid crystal manufacturer not taking into account the US\$ 1.6 mn acquisition of Micrologic Inc of the US, of which Vikay intends utilise their marketing and established distribution network for its local product range. Micrologic Inc manufactures a range of global position system receivers and marine navigation system. \*

16/7/6 (Item 6 from file: 583)

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06100468

Compact radio link that closes the stock control chain  
UK: MICROLISE DEVELOPS DEXTER RADIO DATA LINK  
Grocer (GR) 07 Jan 1995 p.34  
Language: ENGLISH

Eastwood, Nottingham-based Microlise Engineering has developed a new radio\* data \*terminal\* known as the Dexter, measuring 171mm x 85mm x 28mm, which it claims is among the smallest on the market. A \*barcode\* \*scanner\* and optional\* to allow in-store stock checks to be speeded-up. Two major multiples are testing the unit, one located in the UK and one in Ireland. Four or five terminals will be used for this purpose at approximately 100 sites. The sealed unit features an eight-line LCD \*screen\*, a colour coded keyboard, can withstand the temperatures in cold storage and can fit in the pocket of a jacket.

16/7/7 (Item 7 from file: 583)

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05434285

Manufacturing's turn  
UK - LEXLOGISTIX LAUNCHES INVENTORY MANAGEMENT SYSTEM  
Storage Handling & Distribution (SHD) 0 October 1992 p18  
ISSN: 0039-1832

Lexlogistix has introduced Manufacturing Flow Control (MFC), inventory management system for material control in manufacturing. MFC integrates real-time data processing, colour video \*display\* technology, \*barcode\* \*scanning\* and a \*radio\* data \*terminal\*. The system manages inventory from point of receipt of stock, through storage, controlling line feed request generation and finally to inventory issue to the line. MFC is an open system running on Unix-based operating systems. Article discusses MFC and MRP in further detail.

16/7/8 (Item 8 from file: 583)

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05120202

GPS-based runway incursion system  
SWEDEN - GPS-BASED RUNWAY INCURSION SYSTEM TESTED AT GOTHENBERG  
Aerospace World (AEW) 0 May 1992 p64

Sweden: Tests have been undertaken by the Swedish Civil Aviation Administration at Gothenberg, Sweden, airport, of a GPS-based runway incursion system. GNSS transponders made up of a multi-channel GPS receiver supplied by Magnavox Electronic Systems (Torrance, CA), a transmitter/receiver and communications processors have been fitted to four vehicles, one of which also has a navigation processor and a colour \*display\*. The GPS satellite signals allow the GNSS transponder to determine its position, heading and velocity, and this information is transmitted with a unique identification \*code\* to all other \*mobile\* \*units\* with this equipment and to the control tower.

16/7/9 (Item 9 from file: 583)  
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04902619  
Modular warehouse management  
UK - MODULAR WAREHOUSE MANAGEMENT SYSTEM FROM LEX LOGISTICON  
What's New In Industry (WNI) 0 February 1992 pS24  
ISSN: 0142-4971

Lex Logisticon has a modular computerised warehouse management system named 'Dispatcher', designed to increase stock throughput, cut materials handling expenses, cut inventory holdings and stop clerical and operator errors. The open systems package uses a mix of \*portable\* data \*terminals\*, \*bar\* \*code\* \*scanners\*, \*radio\* data \*terminals\* and visual \*display\* terminals. The software consists of a powerful core program and a wide range of modular software packages.

16/7/10 (Item 10 from file: 583)  
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04646756  
Radio data link saves your legs  
UK - ANT OFFERS DATAFON  
Electrical Review (ELR) 28 November 1991 p43  
ISSN: 0013-4384

ANT Telecommunications (Uxbridge, UK) has launched Datafon, a \*mobile\* \*terminal\* which can transmit data over a radio link at 1,200 bits/second. The \*mobile\* \*unit\* incorporates 80 character liquid crystal \*display\*. Data is input by the user via the keypad on the unit or via a \*bar\* \*code\* \*reader\* or RS232 port. The terminal offers 1Mbyte RAM.\*\*

16/7/11 (Item 11 from file: 583)  
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04366644  
\*PORTABLE\* DATA CAPTURE \*TERMINAL\* FROM SYMBOL MSI  
FRANCE - \*PORTABLE\* DATA CAPTURE \*TERMINAL\* FROM SYMBOL MSI  
Monde Informatique (LMI) 24 June 1991 p42  
ISSN: 0242-5769  
Language: French

Symbol MSI France has introduced the PDT 3300, a \*portable\* data capture \*terminal\* based on a 16bit microprocessor. Running under the MS-DOS compatible operating system, DR-DOS, the terminal includes 128kbytes or 256kbytes of non-volatile RAM, a programmable LCD \*display\* with a 64 x 120 resolution, an RS232C port and an internal modem. The PDT 3300 also supports an optional laser \*bar\* \*code\* \*reader\* and a \*radio\*-based data transmission \*device\* to enable it to communicate directly with the host computer in real time.

16/7/12 (Item 12 from file: 583)  
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04216824

PHOENIX MAKES PC-BUILDING EASY WITH NEW PRODUCTS

US - PHOENIX MAKES PC-BUILDING EASY WITH NEW PRODUCTS

Computergram International (CGI) 18 April 1991 p1

ISSN: 0268-716X

Phoenix Technologies (Norwood, MA) is shipping the new PhoenixView/LC, a VGA video BIOS for the flat-panel displays found in portable or \*palmtop\* systems, and PhoenixView, a new VGA video BIOS for desktop personal computers. The company says it has shipped the software to 29 manufacturers that are developing 80386SX and 80386SL-based notebooks. Improvements in video performance are said to be in graphics drawing, Windows 3.0, three dimensional imaging, support for active-matrix colour liquid crystal \*display\* panels, character-text write-to-\*screen\* and \*display\* of \*scanned\* images. It is based on the PhoenixView \*code\* base, but modified for power management functions, and there is support for functions like simultaneous \*display\* on cathode-ray tube desktop monitors and LCD flat-panel monitors.

16/7/13 (Item 13 from file: 583)

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04190349

PSION DEVELOPS HANDHELD INDUSTRIAL COMPUTER

UK - PSION DEVELOPS HANDHELD INDUSTRIAL COMPUTER

Financial Times (C) 1991 (FT) 5 April 1991 p12

Psion (UK): electronic organiser and \*portable\* \*computer\* manufacturer, has developed a hand-held unit for use in industrial or commercial applications for tasks such as stock-taking, quality control monitoring or for looking up prices and information. Similar in shape to the Psion organiser, the HC range of hand-held units can be used with a range of peripherals such as \*barcode\* \*readers\* and \*scanners\*. Each unit has a 16 bit processor, LCD \*screen\* and loudspeaker to broadcast digitally recorded speech. Psion believes the market for such hand-held machines is about to take off. Figures from industry analysts Dataquest show that the sector is growing faster than either the laptop or notebook market - at a rate of more than 90 per cent a year. (Abstract. Copyright The Financial Times Limited 1991)\*\*

Copyright: Financial Times Ltd 1991

16/7/14 (Item 14 from file: 583)

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04188506

PSION LAUNCHES \*HANDHELD\* \*COMPUTERS\*

US - PSION LAUNCHES \*HANDHELD\* \*COMPUTERS\*

Computergram International (CGI) 4 April 1991 p1

ISSN: 0268-716X

Best known for its personal organisers, Psion has launched a range of \*handheld\* \*computers\* for the corporate and industrial markets; the machines are aimed at applications such as data entry in warehouses, market research and service engineering and come with an integral quad modem transmitting data at 1.5Mbps and internal expansion slots for \*barcode\* \*readers\*, laser \*scanners\*, RS232 and parallel interfaces and magnetic card \*reader\*; it also contains space for solid state secondary storage and

has a nine lines by 32 character liquid crystal \*display\*: prices start at GBP400.\*

16/7/15 (Item 15 from file: 583)  
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04050298  
PROCESS COMPUTING LAUNCHES PCL3200P  
UK - PROCESS COMPUTING LAUNCHES PCL3200P  
Materials Handling News (MHN) 0 February 1991 p14  
ISSN: 0025-5351

Process Computing (High Wycombe, UK) has launched the PCL3200P, a \*portable\* handheld \*radio\* data \*terminal\* for use with process Computing's range of computerised warehouse control systems. The unit is for goods receipt, stock checking, picking and despatch operations and is compatible with Process Computing's Commander and Computatrak radio-linked systems. The PCL3200P incorporates a CMOS 6303 processor and memory comprises of up to 32k of ROM and 16k RAM and also 128 bytes on non-volatile RAM. The unit can \*display\* up to six lines of 30 characters and optional interface with a \*barcode\* \*reader\* and mobile printer is possible with the RS232 input/output ports.\*

16/7/16 (Item 16 from file: 583)  
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02916218  
CS DATAPRODUKTER LAUNCH NEW \*HAND\* \*HELD\* \*COMPUTER\*  
SWEDEN - CS DATAPRODUKTER LAUNCH NEW \*HAND\* \*HELD\* \*COMPUTER\*  
Packmarknaden Scandinavia (PS) 0 August 1989 p64  
ISSN: 0348-260X  
Language: Swedish

CS Dataproducter (Orebro, Sweden), computer firm, has launched TimeWand II, a 170g \*hand\* \*held\* \*computer\*. The computer has a built- in \*bar\* \*code\* \*reader\*, and coms complete with keyboard, character \*screen\* and asynchronous RS232-door, for communication with other computer systems. The programme language is C.

16/7/17 (Item 17 from file: 583)  
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02036213  
DOWTY LAUNCHES \*MOBILE\* DATA \*TERMINAL\*  
UK - DOWTY LAUNCHES \*MOBILE\* DATA \*TERMINAL\*  
Communications Management (CST) 0 July 1988 p38

Dowty Information Systems has launched Autoprint II, a \*mobile\* data \*terminal\* which includes an integral printer, 32-character LCD \*display\* and keypad. The terminal can be linked to an IBM PC or compatible and an AM/FM mobile \*radio\* system. The \*mobile\* \*terminal\* can be linked to communications systems which themselves are connected to mainframe computers and networks. The product can incorporate a \*bar\* \*code\* \*reader\* or magnetic striped card.

16/7/18 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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6760602 INSPEC Abstract Number: B2000-12-6250F-109, C2000-12-5620W-040

**Title: The future is here. Or is it? [Web phones]**

Author(s): Wilson, D.

Journal: Scientific American (International Edition) vol.283, no.4

p.50-1

Publisher: Scientific American,

Publication Date: Oct. 2000 Country of Publication: USA

CODEN: SCAMAC.. ISSN: 0036-8733

SICI: 0036-8733(200010)283:4L.50:FHP;1-B

Material Identity Number: 0924-2000-010

Language: English Document Type: Journal Paper (JP)

Treatment: General, Review (G)

Abstract: If you want to see the future, watch a teenager in Japan. For young Japanese, the \*cell\* \*phone\* call—that phenomenon of modern living—is already going the way of 45-rpm vinyl. Phones aren't just for calling; they're for sending e-mail. Since its introduction in February 1999 the Internet-ready iMode phone has been taken up by some 10 million Japanese. It has proved so popular that the carrier, NTT DoCoMo, is now Japan's largest Internet service provider. In the U.S. the acceptance of Web phones is growing rather more slowly. Cell companies have built "microbrowsers" into their latest phones, allowing their customers to send e-mail and check news headlines. Those technophiles who use Web phones swear by them. But it's still not clear that Americans will embrace Web phones with the same enthusiasm as the Japanese or the \*Scandinavians\*. Industry analysts are divided over the long-term viability of the Wireless Application Protocol, in particular. Typing out e-mails using the keypad \*code\* is a real chore: newer phones are incorporating ways to make it easier, such as guessing the word you're trying to spell, but it's still much slower than a full keyboard. Worse, customers quickly find that small \*screens\* and meagre services can cost big bucks. (0 Refs)

Subfile: B C

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16/7/19 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

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6378993 INSPEC Abstract Number: B1999-11-1265F-097, C1999-11-5590-003

**Title: Portable adapter for \*barcode\* \*scanners\***

Author(s): Soon, I.Y.; Yeo, C.K.; Sng, Y.H.

Author Affiliation: Sch. of Electr. & Electron. Eng., Nanyang Technol. Inst., Singapore

Journal: Microprocessors and Microsystems vol.23, no.4 p.217-23

Publisher: Elsevier,

Publication Date: 11 Oct. 1999 Country of Publication: Netherlands

CODEN: MIMID5 ISSN: 0141-9331

SICI: 0141-9331(19991011)23:4L.217:PABS;1-G

Material Identity Number: H386-1999-003

U.S. Copyright Clearance Center Code: 0141-9331/99/\$20.00

Document Number: S0141-9331(99)00027-7

Language: English Document Type: Journal Paper (JP)

Treatment: Applications (A); Practical (P)

Abstract: \*Barcode\* technology presents management with rapid, timely and accurate information and provides quick turnaround times for customers. Its popularity can be attested by its use in all sectors of the industry.

Ordinary \*barcode\* \*scanners\* are linked to personal computers and hence render the \*scanner\* non-portable unless the \*scanner\* is connected to a notebook or \*palm\*-\*top\* \*computer\*. One class of portable \*barcode\* \*scanners\* utilises wireless transmission technology, usually radio frequency, which faces problems of limited coverage and \*radio\* interferences. These \*devices\* often have a prohibitive price tag, as they comprise a handheld unit and a base station. Another type of portable \*scanners\* has built-in memory units to store the data collected. However, the price is still high. In both cases, users cannot make use of their existing non-portable \*scanners\* but need to replace them with portable ones. This paper describes the design of a low-cost portable adapter for commercial \*barcode\* \*scanners\*. The portable adapter transforms any ordinary \*barcode\* \*scanner\* into a portable standalone data collector. It essentially comprises an 8-bit microcontroller with a local memory module for storing the \*barcodes\*. A liquid crystal \*display\* and keypad are also integrated for error checking and correction purposes. \*Barcode\* information can subsequently be uploaded to the host computer via the keyboard port or RS232 link. (5 Refs)

Subfile: B C

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16/7/20 (Item 3 from file: 2)

DIALOG(R) File 2:INSPEC

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6052139 INSPEC Abstract Number: A9822-0150-010, C9811-7250-019

**Title: Low-cost, high-tech experiments for educational physics**

Author(s): Jodl, H.-J.; Eckert, B.

Author Affiliation: Kaiserslautern Univ., Germany

Journal: Physics Education vol.33, no.4 p.226-35

Publisher: IOP Publishing,

Publication Date: July 1998 Country of Publication: UK

CODEN: PHEDA7 ISSN: 0031-9120

SICI: 0031-9120(199807)33:4L.226:CHTE;1-4

Material Identity Number: P016-98004

Document Number: S0031-9120(98)89844-4

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P); Experimental (X)

**Abstract:** The advantage of low-cost experiments is obvious and the real-life aspects of high-tech experiments appeal to pupils. The benefits of hands-on experiments that are both low-cost and high-tech are described here. Four detailed examples are given, which include the use of contact lenses and CDs, and other ideas are provided ABS (anti-lock braking system) airbag sensor autofocus camera \*barcode\* \*reader\* camera flash car tyres winter and summer asymmetrical CD Walkman central locking system coin sorter computer mouse computerized tomography electric Christmas candle electric toothbrush firecrackers forgery identifier garbage sorting mechanical electromagnetic density of material glass cutter household techniques toaster (pyrometer) microwave oven IR motion detector IR remote control (PI/) joystick LCD (liquid crystal \*display\*) LED (light-emitting diode) level control loudspeaker electrostatic speaker piezoelectric metal detector magnetic tools \*mobile\* \*phone\* photocopier Xerox principle thermostatic principle piezo fuse pocket calculator radar emitters and detectors radio-controlled clock signature \*reader\* smoke detector thermometer electrical IR radiation touch-sensitive switches touchscreen ultrasonic cleaning bath echo sounder bat sonography parking distance sensor aluminium foil aluminium tin cans (anti-)reflective coatings bubble-gum wrappers building materials catalyser CD (compact disk) ceramics contact lenses drink mixes fibreglass Gore-Tex/Sympatex glasses phototropic (self-darkening) sunglasses/UV protection high-T, superconductor in-line

skates insulated windows IR sensor foil jewelry Brinell hardness cole  
rs/absorption/polarization/interference piezoeffect laser pointer lavalamp  
liquid crystals electrosensitive thermosensitive magic blackboard magnetic  
liquids metallic coatings memory metal packing and insulating material  
polarizing foil razor blade reflecting oil shark's skin surface-coated  
glasses text marker/UV colours (fluorescence). (7 Refs)

Subfile: A C

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16/7/21 (Item 4 from file: 2)

DIALOG(R) File 2:INSPEC

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5507879 INSPEC Abstract Number: B9704-6250-005

Title: **RFID-a practical solution for problems you didn't even know you had!**

Author(s): Ollivier, M.M.

Author Affiliation: Texas Instrum. Ltd., Bedford, UK

Conference Title: IEE Colloquium on Wireless Technology (Digest  
No.1996/199) p.3/1-6

Publisher: IEE, London, UK

Publication Date: 1996 Country of Publication: UK 42 pp.

Material Identity Number: XX97-00069

Conference Title: IEE Colloquium on Wireless Technology (Digest  
No.1996/199)

Conference Sponsor: IEE

Conference Date: 14 Nov. 1996 Conference Location: London, UK

Language: English Document Type: Conference Paper (PA)

Treatment: Applications (A); Practical (P)

Abstract: Radio frequency identification (RFID) comprises a base radio transmitter/receiver, or \*reader\*, which can interrogate, \*display\*, and sometimes rewrite, an electronic \*code\* held in a \*remote\* \*device\*, transponder, and thus identify any item with which the transponder is associated. This paper introduces the ideas of RFID, using TIRIS technology as examples, with particular emphasis on how these principles can be utilised in practical applications. (0 Refs)

Subfile: B

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16/7/22 (Item 5 from file: 2)

DIALOG(R) File 2:INSPEC

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5188449 INSPEC Abstract Number: B9603-6250F-162, C9603-5620-038

Title: **A testbed for mobile networked computing**

Author(s): Agrawal, P.; Asthana, A.; Cravatts, M.; Hyden, E.; Krzyzanowski, P.; Mishra, P.; Narendran, B.; Srivastava, M.; Trotter, J.

Author Affiliation: AT&T Bell Labs., Murray Hill, NJ, USA

Conference Title: ICC '95 Seattle. Communications - Gateway to Globalization. 1995 IEEE International Conference on Communications (Cat. No.95CH35749) Part vol.1 p.410-16 vol.1

Publisher: IEEE, New York, NY, USA

Publication Date: 1995 Country of Publication: USA 3 vol. xxviii+1985 pp.

ISBN: 0 7803 2486 2 Material Identity Number: XX95-01114

U.S. Copyright Clearance Center Code: 0 7803 2486 2/95/\$4.00

Conference Title: Proceedings IEEE International Conference on Communications ICC '95

Conference Sponsor: IEEE Commun. Soc.; IEEE Seattle Sect

Conference Date: 18-22 June 1995 Conference Location: Seattle, WA, USA  
Language: English Document Type: Conference Paper (PA)

Treatment: Applications (A); Practical (P)

Abstract: The rapid deployment of wireless access technology, along with the emergence of high speed integrated service networks, promises to provide users with ubiquitous access to multimedia information in the near future. We are building an experimental testbed system, SWAN (Seamless Wireless ATM Network), to mimic this emerging networking environment. Our wireless access network is organized according to a nanocellular design with base stations serving as a gateway for communication between the wired network and the mobile hosts in a cell. Normally, a mobile host sends and receives traffic through the base station in its current cell. But SWAN also supports direct ephemeral networking between a limited number of cooperating mobile hosts within a small domain. The heart of the testbed is a networking subsystem, FAWN (Flexible Adapter for Wireless Networking) that interfaces the standard PCMCIA bus to an RF modem. The FAWN interface is used with a PC or workstation connected to a wired backbone network or a \*portable\* \*device\* such as a laptop or \*palmtop\* \*computer\*. In addition, a user interface consisting of an LCD \*display\*, audio I/O, and a \*bar\* \*code\* \*reader\* has been built. When interfaced with FAWN this results in a \*portable\* \*wireless\* multimedia \*terminal\*. (11 Refs)

Subfile: B C

Copyright 1996, IEE

16/7/23 (Item 6 from file: 2)

DIALOG(R) File 2:INSPEC

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5100346 INSPEC Abstract Number: B9512-6420B-002

Title: RFID-a new solution technology for security problems

Author(s): Ollivier, M.M.

Author Affiliation: Texas Instrum. Ltd., UK

Conference Title: European Convention on Security and Detection (Conf. Publ. No.408) p.234-8

Publisher: IEE, London, UK

Publication Date: 1995 Country of Publication: UK xi+313 pp.

ISBN: 0 85296 640 7

Conference Title: European Convention on Security and Detection (Conf. Publ. No.408)

Conference Date: 16-18 May 1995 Conference Location: Brighton, UK

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: Radio frequency identification, RFID, comprises a base radio transmitter/receiver, or \*reader\*, which can interrogate and \*display\* an electronic \*code\* held in a \*remote\* \*device\*, transpondér, and thus identify any item with which the transponder is associated. The paper introduces the ideas of RFID, based on the TIRIS technology, with particular emphasis on how these principles can be applied in the security arena. (0 Refs)

Subfile: B

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16/7/24 (Item 7 from file: 2)

DIALOG(R) File 2:INSPEC

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4670191

Title: On the air at Nippon Express

Author(s): Kurten, F.

Journal: ID Systems European Edition vol.2, no.2 p.15-16  
Publication Date: April-May 1994 Country of Publication: USA  
CODEN: ISEEEE

Language: English Document Type: Journal Paper (JP)  
Treatment: Applications (A)

Abstract: Nippon Express, the largest private freight forwarding agency in the world, has invested some 34 million Deutschmarks in a new distribution center in Munchengladbach, Germany. Nippon Express chose a radio-linked data communication system from Teklogix. The system's network controller emulates the 5251 cluster controller of the AS/400 host, so that the 'host' software sees the \*mobile\* data \*terminals\* as an IBM terminal. All system components are equipped with 32-bit microprocessors, which ensure efficient data transmission and make a system response time of 0.5 sec ends possible. In addition to truck-mounted terminals, full-\*screen\* data \*terminals\* are used on \*mobile\* workstations (three-wheeled \*radio\* carts). All \*mobile\* \*terminals\* can be powered directly from the fork-lift truck or radio cart and are equipped with an interface connector for \*bar\* \*code\* \*readers\*. Nippon Express are very satisfied with the system they selected. Installation proceeded on schedule, and expedited stockpiling of materials in the new distribution center. Warehouse personnel are enthusiastic about their high-tech equipment. (0 Refs)

Subfile: D

16/7/25 (Item 8 from file: 2)  
DIALOG(R) File 2:INSPEC  
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03901649 INSPEC Abstract Number: C91041582  
Title: **Hardware of the electronic organizer ET**  
Author(s): Kondo, Y.; Ikegami, Y.  
Author Affiliation: Personal Product Div., NEC Home Electron. Ltd., Tokyo, Japan  
Journal: NEC Technical Journal vol.44, no.2 p.7-10  
Publication Date: March 1991 Country of Publication: Japan  
CODEN: NECGEZ ISSN: 0285-4139  
Language: Japanese Document Type: Journal Paper (JP)  
Treatment: Practical (P)  
Abstract: The electronic organizer ET is a personal electronic tool, which is connectable with the PC-9800 series of personal computers. The paper discusses the system hardware of the electronic organizer with its compact housing, which is composed of a logic circuit unit containing 8-bit CPU driven by low voltage, a large liquid crystal \*display\*, a short profile keyboard, a \*barcode\* \*reader\*, and a half size IC card. (0 Refs)  
Subfile: C

16/7/26 (Item 9 from file: 2)  
DIALOG(R) File 2:INSPEC  
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03865760 INSPEC Abstract Number: D91001227  
Title: **Multifunction information equipment expands input device market; innovations address graphic user-interface programs**  
Journal: OEP Office Equipment & Products vol.20, no.149 p.36-9  
Publication Date: Feb. 1991 Country of Publication: Japan  
CODEN: OEPRA4 ISSN: 0387-5245  
Language: English Document Type: Journal Paper (JP)  
Treatment: Practical (P); Product Review (R)  
Abstract: Following widespread adoption of personal computers, the market for simple, \*portable\* data input \*devices\* has grown rapidly.

Additionally, users show a significant amount of interest in equipment that performs multiple functions. At private shows and trade exhibitions, manufacturers of information equipment and components are stressing products that permit easy data entry. Stimulated by this environment, producers have developed a diverse range of input devices, such as image \*scanners\* compatible with color \*scanning\*, \*barcode\* \*readers\*, cursor controllers and liquid crystal \*display\* (LCD) point-and-touch panels. As manufacturers and consumers think up new uses for such products, the market has the potential to swell with a rising tide of demand. Image \*scanners\*, \*bar\* \*code\* \*readers\* and cursor controllers are briefly described. Various products from five manufacturers, namely Ricoh, TEC, Panasonic, Mitsumi and Alps, are briefly reviewed. (0 Refs)

Subfile: D

16/7/27 (Item 10 from file: 2)

DIALOG(R)File 2:INSPEC

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03180252 INSPEC Abstract Number: D88002193

**Title: Retailing is an information processing business**

Journal: OEP Office Equipment & Products vol.17, no.116 p.42-4

Publication Date: May 1988 Country of Publication: Japan

CODEN: OEPRA4 ISSN: 0387-5245

Language: English Document Type: Journal Paper (JP)

Treatment: Applications (A); General, Review (G)

Abstract: The 7-Eleven Japan company uses \*portable\* order-placing \*terminals\* and an online replenishing order system. In September 1982, a POS system was introduced and all stores in the system had been installed by February 1983. At that time, there were a total of 1750 stores. Then, too, the ordering system was changed from a method where the information in the \*barcode\* book was read by a \*scanner\* to an Electronic Order Booking (EOB) system in which the ordering terminal memorizes the information in the \*barcode\* book. The component equipment for the POS system, that is the POS terminal and terminal controller, were upgraded in 1985, and personal computers with color \*display\* equipment were installed. In this way, the company expanded the POS system functions and, simultaneously, simplified its use, making the POS system more effective for each store. (0 Refs)

Subfile: D

16/7/28 (Item 11 from file: 2)

DIALOG(R)File 2:INSPEC

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03120108 INSPEC Abstract Number: C88029532

**Title: New ideas with new computers: the Epson Handy Terminals**

Author(s): Asbock, L.

Journal: Mikro- und Kleincomputer vol.9, no.6 p.17-20

Publication Date: Dec. 1987 Country of Publication: Switzerland

CODEN: MKLED2 ISSN: 0251-0006

Language: German Document Type: Journal Paper (JP)

Treatment: Practical (P); Product Review (R)

Abstract: The author introduces the Epson Handy Terminals (EHT 10/2)-logical development of the Epson PX-4 and enabling mobile data acquisition without a large computer. The EHT 10/2 resembles a large pocket calculator with 4-line LCD and 34 keys whilst the EHT 10 has a 7\*14 cm LCD \*screen\* and both are built around a CMOS CPU Z80 aided by a slave CPU 7508. A max. storage of 256 Kbyte is available. The author describes the RS232 interface, \*bar\* \*code\* \*reader\*, IC card, extensions, functioning, RAM and ROM storage, software, programming languages (BASIC or Z80 machine

language), FONT command, handbook and target market. (0 Refs)  
Subfile: C

16/7/29 (Item 12 from file: 2)  
DIALOG(R)File 2:INSPEC  
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02807176 INSPEC Abstract Number: C87011166  
**Title: The Psion Organiser II**  
Journal: Chip no.12 p.210  
Publication Date: Dec. 1986 Country of Publication: West Germany  
CODEN: CHIPDP ISSN: 0170-6632  
Language: German Document Type: Journal Paper (JP)  
Treatment: Practical (P); Product Review (R)  
Abstract: The Psion Organiser II looks like its predecessor, but its inside has drastically changed. This \*pocket\* \*computer\* is available in two versions with different specifications. Software is held in exchangeable data packs (EPROM) with 24 or 32 kB, RAM capacity is 8 or 16-32 kB. The LC \*display\* with 2 lines of 16 characters can show time and date and will also \*display\* a message concerning timed events which are due to be actioned together with audio signals. It can be connected to various computers, printers, modems. \*Bar\* \*code\* and magnetic card \*readers\* can be attached. Extensive programming capabilities are available. (0 Refs)

Subfile: C

16/7/30 (Item 13 from file: 2)  
DIALOG(R)File 2:INSPEC  
(c) 2003 Institution of Electrical Engineers. All rts. reserv.

02703185 INSPEC Abstract Number: B86044690, C86040805  
**Title: \*Portable\* \*computer\* aid for the combined speech and physically impaired**  
Author(s): Barton, E.; Masi, J.V.  
Author Affiliation: Dept. of Electr. Eng., Western New England Coll., Springfield, MA, USA  
Conference Title: Proceedings of the Eleventh Annual Northeast Bioengineering Conference (Cat. No.85CH2203-8) p.20-4  
Editor(s): Kuklinski, W.S.; Ohley, W.J.  
Publisher: IEEE, New York, NY, USA  
Publication Date: 1985 Country of Publication: USA xiv+411 pp.  
U.S. Copyright Clearance Center Code: CH2203-8/85/0000-0020\$01.00  
Conference Sponsor: IEEE; 3M Co.; Worcester Polytech. Inst.; Whitaker Found  
Conference Date: 14-15 March 1985 Conference Location: Worcester, MA, USA  
Language: English Document Type: Conference Paper (PA)  
Treatment: Practical (P)  
Abstract: This study was performed in coordination with Shriner's Hospital, Springfield, MA. The person for whom the project was initiated is a young girl, age 12, who is a patient at Shriner's Hospital. She is speech and physically impaired, having only the use of left-right motion of her head and limited single hand motion out from and toward her seated body. The design of the input devices is suited to her needs, but can be varied dependent upon the degree of impairment, size, and mobility of the subject. The patient is currently using an Apple II computer which has both a Morse \*Code\* program (memorization and table lookup) and different \*scan\* programs with selectable speeds. The cost of the system including computer, printer, cassette, cassette interface, control interface and additional

\*display\* was about \$350. The total weight (cassette excluded) is about 2 kg. The system is battery (rechargeable) powered and has a charged operation time of about 1 h under normal use. A speech development system using a speech compressor/speech resynthesizer approach is being constructed. The target price for the speech system will be in the range of \$75-\$100 for a capacity of about 64 words placed in ROM. (0 Refs)

Subfile: B C

16/7/31 (Item 14 from file: 2)

DIALOG(R) File 2:INSPEC  
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02492560 INSPEC Abstract Number: C85037360

Title: Low cost portable speech synthesis system using \*bar\* \*code\* technology

Author(s): Curran, J.E.

Author Affiliation: TIGER Commun. Syst. Inc., Rochester, NY, USA

Conference Title: Computer Technology for the Handicapped. Proceedings from the 1984 Closing the Gap Conference p.101-5

Editor(s): Gergen, M.; Hagen, D.

Publisher: Closing the Gap, Henderson, MN, USA

Publication Date: 1985 Country of Publication: USA 253 pp.

ISBN: 0 932719 00 7

Conference Date: 13-16 Sept. 1984 Conference Location: Minneapolis, MN, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Applications (A)

Abstract: A system comprises 1000 words, language pictures and binary codes need not necessarily rely on super-sophisticated free from high capacity memory chips, clumsy keyboards, fragile CRT or LCD \*screens\*, technology. An inexpensive alternative should be confusing mnemonic codes and prerequisite reading skills. This paper describes a response to this challenge using existing hardware combined with a novel approach to communication software. It explores the interface of Texas Instruments' Magic Wand Speak and Learn with the TIGER Communication System's TIGERbook.

(3 Refs)

Subfile: C

16/7/32 (Item 15 from file: 2)

DIALOG(R) File 2:INSPEC  
(c) 2003 Institution of Electrical Engineers. All rts. reserv.

01319376 INSPEC Abstract Number: C79009742

Title: \*Portable\* data collection \*device\*

Author(s): Coffman, D.H.; Nowell, J.T.; Williams, D.D.

Author Affiliation: IBM Corp., Armonk, NY, USA

Journal: IBM Technical Disclosure Bulletin vol.21, no.1 p.65

Publication Date: June 1978 Country of Publication: USA

CODEN: IBMTAA ISSN: 0018-8689

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: A device is described for reading, storing, and dumping data represented by \*bar\* \*code\* formats. It consists of an optical wand, keyboard, \*display\*, memory, data dump control, microprocessor, and power supply with associated regulator. (0 Refs)

Subfile: C

16/7/33 (Item 1 from file: 233)

DIALOG(R) File 233:Internet & Personal Comp. Abs.  
(c) 2003 Info. Today Inc. All rts. reserv.

00580568 00PI03-224  
**Prime-time cool gadgets**

Howard, Bill  
PC Magazine , March 21, 2000 , v19 n6 p101, 1 Page(s)  
ISSN: 0888-8507

BILL HOWARD column features several new gadgets. Points out that most are designed for the road warrior. Suggests that a highly anticipated product may not be as impressive as expected once it is shipped. Discusses the Corex CardScan Executive (\$250), a USB business card \*scanner\* from Corex. Says that the product now provides an updated OCR engine and USB connectivity, but says that the upgrades, for the most part, are ``underwhelming.'' Discusses other products, including: Area \*Code\* Fix; the \*Palm\* IIIc with a color \*display\*; the Targus Universal AC Adapter, a universal AC transformer/adapter with interchangeable tips for eight major notebook PC brands; the Sony USB mouse; the Sony PCGA-UMS1, a two-button, scrolling-wheel USB mouse; Targus Mobile Mini Mouse; Remote Point RF for onstage PowerPoint presenters; Portable USB modem; and the MultiTech MultiMobileUSB modem. (kgh)

**16/7/34 (Item 2 from file: 233)**

DIALOG(R) File 233:Internet & Personal Comp. Abs.  
(c) 2003 Info. Today Inc. All rts. reserv.

00432476 96MA08-205

**Epic notebook to flip lid; PB aims at easy upgrades**

Morgenstern, David  
MacWEEK , August 19, 1996 , v10 n32 p1, 86, 2 Page(s)  
ISSN: 0892-8118

Company Name: Apple Computer

Announces plans for the upcoming release of a new PowerBook notebook system, \*code\* -named Epic (\$2,500 estimate for base model), from Apple Computer Inc. Explains that the system, which includes a 117-MHz PowerPC 603e processor, has been adapted to accept easy upgrades. Explains that the keyboard is hinged for easy access to the logic board, which will simplify RAM and CPU upgrading. Also mentions that the unit will include ``book covers,'' customizable covers that attach to the top of the unit. Features will include an 11.3-inch TFT or dual-\*scan\*, passive matrix color \*display\* , 1MB video RAM, 750MB or 1GB Enhanced IDE hard drive, and a PC Card slot. Also includes a front-loading expansion bay for housing battery or storage options. Includes one diagram. (kgh)

**16/7/35 (Item 3 from file: 233)**

DIALOG(R) File 233:Internet & Personal Comp. Abs.  
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00367757 94ML11-014

**Anatomy & Physiology with MediaMAX**

Cox, Jenny; Haffey, Jan; Metter, Kathleen  
MultiMedia Schools , November 1, 1994 , v1 n3 p81-83, 3 Page(s)  
ISSN: 1075-0479

Company Name: Videodiscovery

Product Name: Anatomy & Physiology with MediaMAX

Presents a favorable review of Anatomy & Physiology with MediaMAX (\$649), an educational program about anatomy and physiology on videodisc from Videodiscovery Inc. of Seattle, WA (800, 206). Runs on Macintosh and 286-based PCs (386-based PCs recommended) with a videodisc player. Features

more than 3,000 photographs, animations, illustrations, computer graphics, dissection stills, charts, and film segments. Adds that it helps students visualize abstract molecular concepts. Also says that it provides three navigation options: using a \*remote\* control \*unit\*, \*barcode\* \*reader\*, or the MediaMAX interactive searching software and database. However, says that there is too much information for group viewing, users may have difficulty using the \*remote\* control \*unit\* and \*barcode\* \*reader\* with the software, and many charts and diagrams lack clarity. Considers it versatile and an excellent supplement. Rated four out of five stars. Includes a score card, a summary card, a photo, and four \*screen\* displays. (ACD)

16/7/36 (Item 4 from file: 233)  
DIALOG(R) File 233: Internet & Personal Comp. Abs.  
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00309234 93PL04-003  
Office to go -- Doing business today often means bringing your office with you. But how do you determine what you'll need in your portable office?

Mandell, Mel  
PC Laptop Computers Magazine , April 1, 1993 , v5 n4 p28-34, 7 Page(s)  
ISSN: 1043-1314  
Examines the various uses and needs of laptop computer users. Says that the needs of traveling professionals are: modem, space for key software programs, contact-management program, calendar program, word processor and spreadsheet. Sales people need contact or sales management programs, mapping programs, online services, portable CD-ROM, portable printers. Technicians require sharp color displays and hard drives or CD-ROMs large enough to hold maintenance manuals. Presenters can use an LCD \*screen\* projector and slide show software programs. Sales/delivery people often use \*handheld\* \*computers\*, sometimes pen based, equipped with \*bar\*-\*code\* \*readers\*. A list of features to look for in a \*portable\* \*computer\* plus a company address list are given. Contains 7 photos. (GC)

16/7/37 (Item 5 from file: 233)  
DIALOG(R) File 233: Internet & Personal Comp. Abs.  
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00141207 87MW04-013  
White space and black bars  
Drapiza, Eileen; Osburn, Christopher  
Macworld , Apr 1987 , v4 n4 p170-171, 2 Pages  
ISSN: 0741-8647  
Presents favorable reviews of two \*bar\*-\*code\* \*readers\*: the PC-380 \*Bar\* \*Code\* \*Reader\* (\$795) from TPS Electronics and the TimeWand \*Barcode\* System (\$198-\$248) from Videx, Inc. Notes that the PC-380 requires 128K RAM and the TimeWand requires 512K RAM to run on a Macintosh. Says that the PC-380 is easier to set up and use, but it is not portable. Describes the TimeWand as as a \*portable\* \*unit\* which is more difficult to use because it does not allow direct input to the Macintosh. Includes one \*screen\* \*display\*. (bl)

16/7/38 (Item 6 from file: 233)  
DIALOG(R) File 233: Internet & Personal Comp. Abs.  
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00137373 87PB02-002

**The SORD IS-11c: A package of paradoxes**

Brown, Lonny J

Pico, The Journal of Portable Computing , Feb 1987 , v2 n2 p13-16; 4

Pages

ISSN: 0890-6246

Presents an unfavorable review of the SORD IS-11c \*Portable\* \*Computer\* (\$1,395), a laptop computer, from SORD Computer of America Inc. of New York, NY (212). Includes a 3.6MHz CMOS Z80A microprocessor, 72K ROM, 80K RAM, LCD \*display\* , an MC30 microcassette, a Bell 103 Standard modem, clock, and parallel, serial, Centronics, numeric keypad, and \*bar\* \*code\* \*reader\* interfaces. Weighs six pounds six ounces. Says that it uses its own operating system and is not compatible with CP/M or MS-DOS software. States that it is easy to use, and has built-in integrated software including a word processor, communications, notebook, utilities, and a file manager "that succeeds beautifully in its mission." The drawbacks include a very poor \*screen\* \*display\* , very poor documentation, and no handle. Article includes a sidebar on the peripheral capabilities and a sidebar on a \*screen\* upgrade. Includes two photos of the machine and a diagram of the peripherals that can be attached. (tjm)

**16/7/39 (Item 1 from file: 99)**

DIALOG(R) File 99:Wilson Appl. Sci & Tech Abs

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1927410 H.W. WILSON RECORD NUMBER: BAST99057041

\*Scantech\* '99

AUGMENTED TITLE: Chicago, Ill., Oct. 5-7, 1999; products on \*display\*

Material Handling Engineering v. 54 no9 (Sept. 1999) p. 85-7

DOCUMENT TYPE: Exhibit ISSN: 0025-5262

ABSTRACT: A guide to the \*Scantech\* '99 conference, which will be held October 5-7 at Rosemont Convention Center, Chicago, Illinois. Technologies to be featured at the show include the next generation of \*wireless\* data collection \*terminals\*, \*bar\* \*code\* printing systems, 2-D symbologies, and the latest in RF identification. Some products on \*display\* at the show are described.

**16/7/40 (Item 2 from file: 99)**

DIALOG(R) File 99:Wilson Appl. Sci & Tech Abs

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1501381 H.W. WILSON RECORD NUMBER: BAST94022972

"Anyone can find a pallet load when it's needed"

Modern Materials Handling v. 49 (Mar. '94) p. 96/S9-S10

DOCUMENT TYPE: Feature Article ISSN: 0026-8038

ABSTRACT: An information network manages a custom direct mail catalog print and shipping facility at McGill/Jensen's 300,000 sq ft printing facility in St. Paul, Minnesota, where between 8 million and 19 million catalogs are printed per week. \*Bar\* \*codes\* are printed for each pallet as sections of a catalog are run off the printing machine. Lift trucks are equipped with full-\*screen\* \*terminals\* with \*radio\* frequency data communications and \*bar\* \*code\* \*scanners\*. The lift truck operator places the pallet in an open storage location and links the work-in-process load and its position by \*scanning\* the \*bar\* \*code\* information on each pallet. This facilitates retrieval of a pallet load when required. .

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